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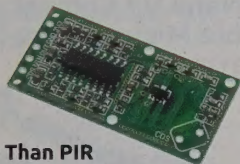
* Restrictions Apply

Doppler Radar Motion Sensor

34685 MP | \$1.95 ea

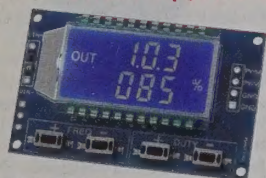


Better Than PIR



Variable Frequency Pulse Generator

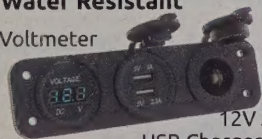
34758 MP | \$7.95 ea



1Hz to 150KHz
Variable Frequency & Pulse Width

12VDC Power Panel Water Resistant

Voltmeter



12V Jack
USB Charger

34816 MI | \$24.95 ea

12VDC Battery Monitor

34899 ME
\$19.95 ea



LED Bargraph

Stereo Audio Switch

34688 SW | \$2.95 ea

3.5mm stereo audio jacks



Load Cell For Microcontrollers

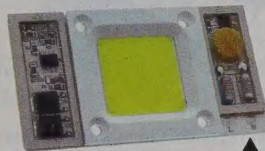
34723 MI | \$4.95 ea

10Kg



50W LED Modules

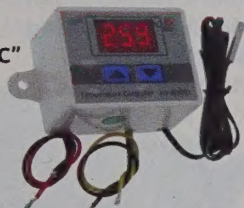
34767 OP Cool White 110VAC Input
34768 OP Warm White 110VAC Input
\$12.95 ea



Temperature Controller

34757 MP | \$8.95 ea

-50 to +110 "C"



Lighter Plug Cord Set

34815 CB
\$3.95 ea

With Fuse & Switch



Light Sensitive Relay

34696 MP | \$4.95 ea

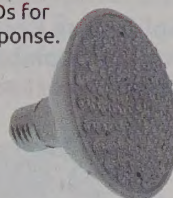


LED Grow Light

34765 LA | \$8.95 ea

Blue & Red LEDs for Best Plant Response.

110VAC Input



USB-SS 3.0 Cable

34600 CB
\$4.95 ea

3m with Type A Males Both Ends



SMD LEDs

Pack of 10 pcs



1W

34770 OP Red
34771 OP Green
34772 OP Blue
34777 OP Grow
\$2.95/pack

3W

34773 OP Red
34774 OP Green
34775 OP Blue
34778 OP Grow
\$3.95/pack

20mm Pointer Control Knobs



1/4in Shaft

Pack of 6 Colors

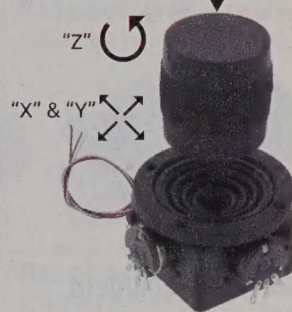
34787 KN | \$2.95/Pack

3 Axis Joystick

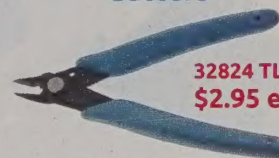
34790 MI 5K Ohm

34791 MI 10K Ohm

\$19.95 ea P/B Switch



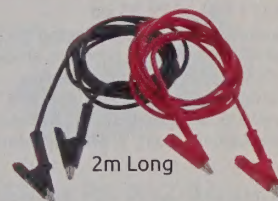
Component Flush Cutters



32824 TL
\$2.95 ea

Red & Black Test Leads

34968 TE | \$8.95 pair



2m Long

Micro Pushbutton Switches

2ea of 7 Colors



6mm Sq.

34890 SW | \$1.95 Set

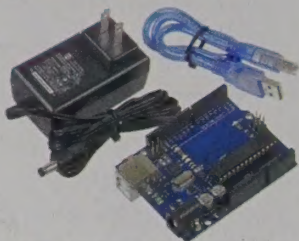
Our Most Popular Products

Visit us at www.mpja.com for complete line of products

Uno-R3 Compatible Micro Controller Kit

30297 MP | \$19.95 ea

Includes Power Supply & USB Cable. Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc/en and others on-line. Includes Power Supply & USB Cable. Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc/en and others on-line.



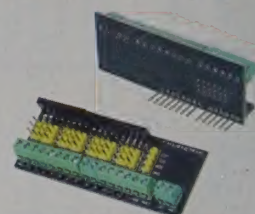
UNO-R3 Protective Case

32182 MP | \$2.95 ea



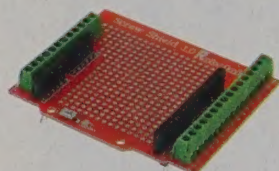
UNO Terminal Shield Board

32799 MP | \$5.95 ea



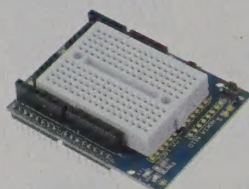
Perfboard Terminal Arduino Compatible Shield

32797 MP | \$5.95 ea



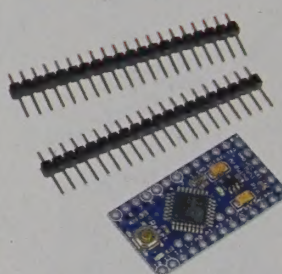
Solderless Breadboard, Arduino Compatible Shield

32400 MP | \$8.95 ea



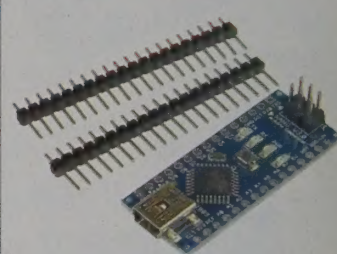
Pro Mini Compatible Micro Controller

31355 MP | \$4.95 ea



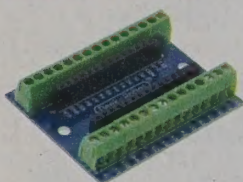
Nano V3 Compatible Micro Controller

31354 MP | \$9.95 ea



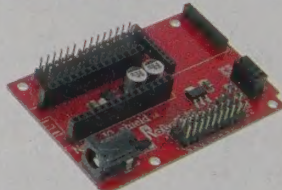
Nano Terminal Shield Board

32796 MP | \$4.95 ea



Nano Shield W/ Wireless Expansion

33324 MP | \$8.95 ea



Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the UNO, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16mHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www.arduino.cc/en and others on-line.

Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the UNO, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16mHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www.arduino.cc/en and others on-line.

Mega R3 Compatible Controller

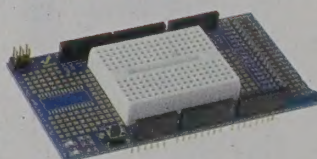
33311 MP | \$19.95 ea

Compatible with most existing Duemilanove & Dieci program, shield & IDEs The Mega is major step up in processing power. Information & Freeware available through, forums, www.arduino.cc/en, & others on-line.



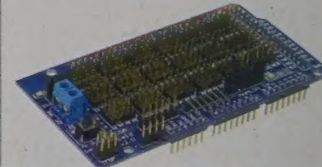
Mega Prototyping Breadboard

31547 MP | \$9.95 ea



Mega I/O Sensor Shield V2.0

31060 MP | \$12.95 ea



Iduino Starter Upgrade Kit

33312 MP | \$39.95 ea

This is a upgrade version UNO R3 compatible starter kit, with added components to achieve more features and experiments. Includes Links to Data sheets. Information & Freeware available through, forums, www.arduino.cc/en, & others on-line.



Iduino Rfid Starter Upgrade Kit

33313 MP | \$55.95 ea

This is a UNO R3 compatible starter kit, with added components for RFID. Includes Links to Data sheets and information. available through, forums, www.arduino.cc/en, & others on-line.



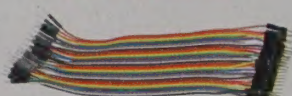
65 Pcs. Molded Jumper Set

30116 PL | \$3.95 ea



40 Pcs. Male To Male Jumper Set

31217 PL | \$3.95 ea



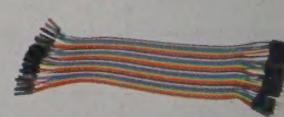
40 Pcs. Female To Female Jumper Set

30117 PL | \$3.95 ea



40 Pcs. Male To Female Jumper Set

31218 PL | \$2.72 ea



Arduino 37 pc. Sensor Starter Kit

33317 MP | \$35.95 ea

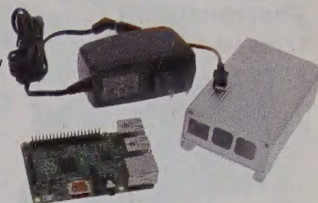
Sensor kit for general use with Arduinos and other microcontrollers. This 37pc. kit is ideal for Classrooms or Instructional Labs. Includes Handy latching compartment storage box and Experimenter's Manual covering Sketches & use with the Arduino UNO



Raspberry-Pi-2B Starter Set

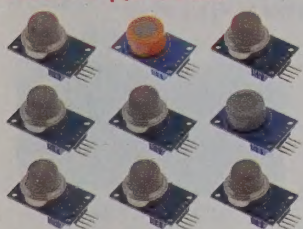
32670 MP | \$75.95 ea

Raspberry-Pi-2B Controller with Heavy Duty Aluminum Case, Fan & Power Supply. Full featured 32 bit, Raspberry-Pi 2 Model B. This small card sized microcomputer Features: Broadcom's BCM2836 SOC 900MHz processor, 1GB RAM and VideoCore IV 3D Graphics core. Requires you to download an Operating System to your SD Card Software: Full range of ARM GNU/Linux distributions NOOBS, Raspbian, Pidora, Windows10 (Fall of 2015)



9 pcs. Gas Sensor Kit

32507 MP | \$24.95 set

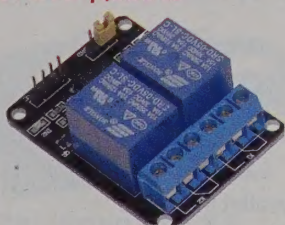


MQ-Series gas sensors coupled with a LM393 IC. 4 pin connections. Can be interfaced to an Arduino or other micro controllers. Includes 1 ea Sensor module

MQ-2 Combustable Gas Sensor
MQ-3 Ethanol Alcohol Sensor
MQ-4 Methane Gas Sensor
MQ-5 Natural Gas Sensor
MQ-6 Propane-Butane Sensor
MQ-7 Carbon Monoxide Sensor
MQ-8 Hydrogen Gas Sensor
MQ-9 Methane-Propane Sensor
MQ-135 Air Quality Sensor

5V Dual Relay Board

32442 MP | \$3.95 ea



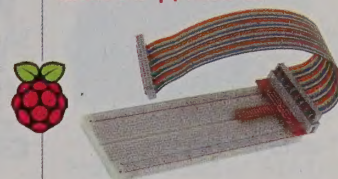
Raspberry-Pi 2 Aluminum Case

32593 MP | \$24.95 ea



28 Pin GPIO Breakout Breadboard Kit for Raspberry-Pi

33050 MP | \$10.95 ea



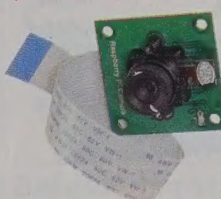
12V Quad Relay Board, Isolated

33330 MP | \$7.95 ea



Raspberry-Pi 5M Pixel Camera Module

31178 MP | \$29.95 ea



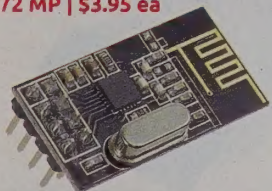
Raspberry-Pi 5M Pixel Camera Module

31497 MP | \$34.95 ea



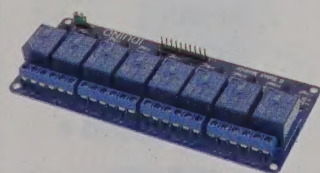
2.4 GHz WIRELESS TRANSCEIVER

31572 MP | \$3.95 ea



5V 8 Channel Relay Board

33329 MP | \$10.95 ea



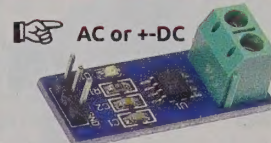
OPTO Interrupter Sensor

31577 MP | \$2.95 ea



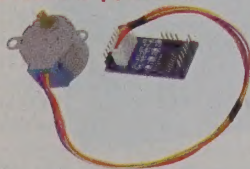
Current Sensing Module

5Amp | 31584 MP | \$4.79 ea
20Amp | 31944 MP | \$4.79 ea
30Amp | 31586 MP | \$4.79 ea



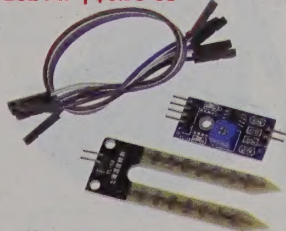
5V Gearhead Stepper and ULN2003 Driver Board

31592 MP | \$4.95 ea



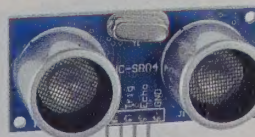
Moisture Sensor

30282 MP | \$6.95 ea



Ultrasonic Ranging Module

19605 UT | \$3.31 ea



Use with Microcontrollers

USB to RS-232 Arduino Bridge Control, CP2102

31575 MP | \$4.95 ea



Humidity Sensor

30287 MP | \$5.95 ea



RFID/NFC Reader/Writer

31111 MP | \$8.95 ea



I/R XMIT/Receiver Pair

32352 MP | \$3.95 ea

Add Remote Control to Microcontrollers



8X8 Programmable Red LED Matrix

34563 MP | \$3.95 ea



Programmable Digital Thermostat "C"

32709 MP | \$9.95 ea



Thermostat, Auto Heat/Cool, "C"

32964 MP | \$13.95 ea

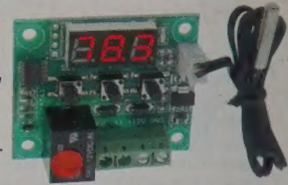


Digital Temperature Controller

32184 MP | Celsius | \$5.95 ea

32764 MP | Fahrenheit | \$6.95 ea

Compact digital thermostat with isolated relay output and 3digit 0.28" LED display. Features: Programmable set Points, Cool or Heat control, Hysteresis, Delay and High Temp. Alarm. Power: 12VDC Current: ~65mA Relay energized Accuracy: Measurement : 0.1deg. Relay: SPST-NO 20A/14VDC; 20A/125VAC Sensor: NTC waterproof probe (12in. leads) Terminal Strip for Power & Relay contacts.



High Temperature Thermostat

34687 MP | \$12.95 ea



☞ -30 to 999 Deg "C"

Mini Electronic Thermostat

32934 MP

\$12.95 ea

Shows Ambient & Set Point Temps.



☞ Selectable "C" or "F"

4 X 20 Character LCD

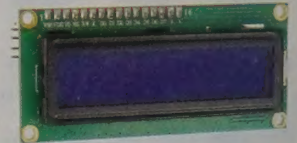
31164 MP | \$9.95 ea



Parallel Interface

Serial 2 X 16 Character LCD

31164 MP | \$9.95 ea



Temperature Controller

34757 MP | \$8.95 ea

-50 to +110 "C"



Thermostat with Timer

34686 MP | \$12.95 ea



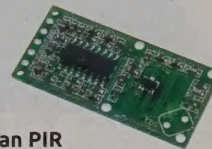
☞ Selectable "C" or "F"

Doppler Radar Motion Sensor

34685 MP | \$1.95 ea



Better Than PIR



Programmable Security Key Pad

31928 SC | \$49.95 ea



Motion Detector with Light Sensor

31227 SC | \$3.95 ea



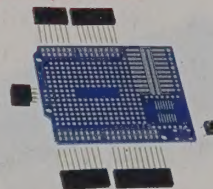
12VDC 0-10 Sec. Time Delay Relay Module

33421 RL | \$2.95 ea



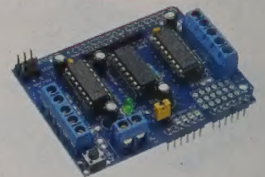
Perfboard Shield Kit

32795 MP | \$4.95 ea



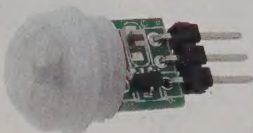
Motor Shield Board

30292 MP | \$10.95 ea



Motion Detector Mini Module

32061 SC | \$3.95 ea



Powered Breadboard

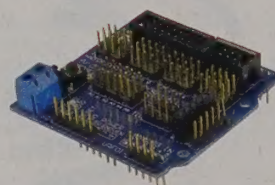
32920 TE | \$49.95 ea

★ +/- 0-15VDC & +5V Supplies



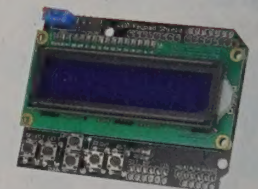
Sensor Shield

31058 MP | \$7.95 ea



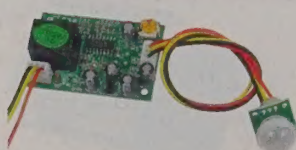
2 X 16 LCD Shield

31059 MP | \$11.95 ea



PIR Relay Module

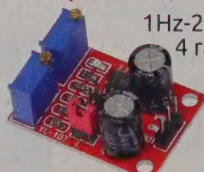
32183 SC | \$5.95 ea



Adj. Pulse Generator

31070 MI | \$5.95 ea

1Hz-200KHz in 4 ranges



Dual Audio Amplifier

32705 MP | 50Watt | \$14.95 ea



14 Watt Audio Amplifier

31806 MI | \$5.95 ea



General Purpose Solder Station

15860 TL | \$16.95 ea

Adjustable from 5 to 50 Watt (800 deg. F max) Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.
For replacement tips and handle visit our website www.mpja.com



Temperature Controlled Solder Station

15845 TL | \$48.95 ea

Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +10 deg. "F" control. Rated at 48Watts, 24Vac handle. Temperature range: 320 deg. "F" to 800 deg. "F". Isolated tip, fused line. 117 VAC. For replacement tips and handle visit our website www.mpja.com



Most Popular!!

Circuit Board Work Holder 33800 TL | \$7.95 ea



LED Lighted Soldering Iron 17516 TL | \$5.95 ea



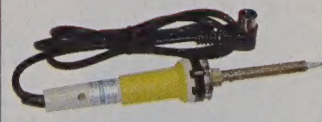
Replacement Tip Available

SMD Hot Tweezer Adapter 15847 TL | \$12.95 ea



➡ For 15845 TL station Only!

Replacement Handle 15846 TL | \$6.95 ea



➡ For 15845 TL station Only!

Soldering Iron Set 32234 TL | \$14.95 ea



30W

Soldering Iron Kit 16431 TL | \$7.95 ea



Desoldering Iron 16922 TL | \$6.95 ea



★ Built in Solder Sucker

Hobby Solder Station 19154 TL | \$17.95 ea



Ball Style Tip Cleaner 34716 TL \$5.95 ea



Benchtop Smoke Absorber 15166 TL \$32.99 ea

Carbon Filter



Desoldering Station for Circuit Repair 19034 TL | \$119.95 ea

Economical desoldering station designed for use with lead free solders. Ergonomic pistol grip Head with trigger for rapid removal of solder. Displays both the Set Point & the Actual Tip temperature. Temp. Range: 160-480Deg. "C" Watts: 80W running/130W cold start heat-up Power: 115VAC/ 60Hz. Features: Internal vacuum pump, LCD Display, electronic temperature control, PTC Ceramic Heater, Readout in "F" or "C". 3ft. cable/hose length. Includes: 0.8, 1.0 & 1.3mm tips & 3 filter/traps. Replacement parts Available at www.mpja.com



Hot Air Rework Station 16121 TL | \$99.95 ea

Hot air repair/rework station for SMT devices. Features: a fast heating ceramic heater, internal air supply, stable temperature, comfort grip handle, interchangeable hot air nozzles for PLCC/SOP/ etc. devices. Adj. air flow/and temperature. Temperature range: 150 deg.-500deg. "C".
16123-TL QFP 10 X 10 (mm),
16124-TL QFP 14 X 14 (mm),
16122-TL Single 2.5mm Dia.,
16128-TL Single 4mm Dia.
Visit www.mpja.com for more nozzles



Solder Station 32580 TL | \$59.95 ea



Mini Solder Sucker 20041 TL | \$3.95 ea



Antistatic Solder Sucker 15859 TL | \$6.95 ea



DMM, Power Supply and Solder Station 28901 TL | \$125.95 ea

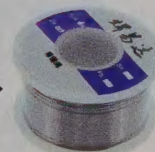
Technician work station with Soldering station, Digital Meter & Adjustable Power Supply. CE listed
Includes: Meter Probes, Power supply clip leads, Soldering Iron stand.



Solder 60/40 Rosin Core 33593 TL | 1mm | \$9.95 ea

33594 TL | .6mm | \$9.95 ea

115ft. Spool ➡

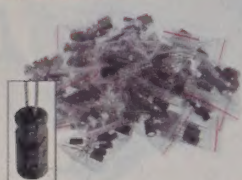


10gm 63/37 Solder 32775 TL | \$1.99 ea



260pcs Electrolytic Capacitor Assortment

32531 CR | \$10.95 ea



400pcs Monolythic Ceramic Capacitor Assortment

32534 CM | \$10.95 ea

50V



360pcs TO-92 Transistor Assortment

32376 QT | \$8.95 ea



150pcs Brass Standoff Kit

33401 HD | \$3.95 ea



520pcs 1/4W Resistor Assortment

32037 RS | \$4.95 ea



65pcs Variable Resistor Kit Horizontal Mount

32359 VR | \$4.95 ea



50pcs Variable Resistor Kit Vertical Mount

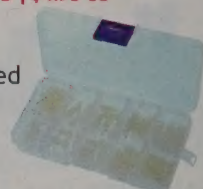
32358 VR | \$3.95 ea



88pcs Nylon Standoff Kit

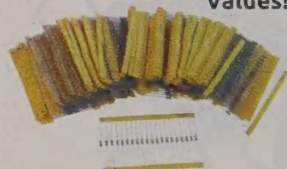
33372 HD | \$4.95 ea

M3-0.5 threaded



2600pcs 1/4W Resistor Assortment

33418 RS | \$14.95 ea 130 Values!!



70pcs 16VDC Electrolytic Capacitor Assortment

32532 CR | \$5.95 ea



50pcs Variable Resistor Kit Vertical Mount

32809 VR | \$12.95 ea



50pcs Resettable Thermal Fuses Kit

33414 FU | \$5.95 ea



230pcs 2W Resistor Assortment

32763 RS | \$9.95 ea



190pcs Polyester Cap Kit

33416 CR | \$6.95 ea



100pcs Ceramic Capapacitor Kit

33413 CR | \$3.95 ea



50pcs GMA (5X20mm) Fuse Assortment

32762 FU | \$4.95 ea



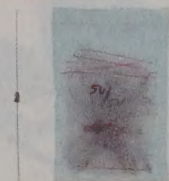
255pcs Diode and Rectifier Assortment

33412 DI | \$6.95 ea



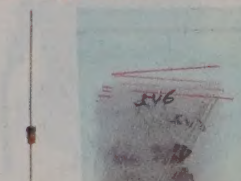
140pcs 1/2W Zener Diode Assortment

33028 DI | \$3.95 ea



70pcs 1W Zener Diode Assortment

33027 DI | \$4.95 ea



6 colors SPST-NO Pushbutton Button Set

32728 SW | \$1.95 ea



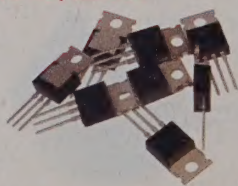
58pcs Plastic Gear Assortment

32185 HD | \$7.95 ea



8pcs 5-24V Positive Voltage Regulators Kit

32375 RG | \$2.95 ea



80pcs 78L Series Positive Voltage Regulator Kit

33417 RG | \$4.95 ea



60pcs 79L Series Negative Voltage Regulator Kit

33415 RG | \$4.95 ea



Selectable Output Bench Supply

29902 PS | \$16.95 ea

P/N: 9902-PS
Input: 90-250VAC 60Hz
Outputs: 3,4,5, 6, 7.5,9,12VDC @ 2000mA Selectable
Specifications/Features: Enclosed, Benchtop regulated, switching supply. Switch selectable output. Front panel Power switch, Select switch & Binding posts. 6ft. 2 wire input power cord with 2 blade plug.



0-15VDC @ 1A Linear Bench Supply

29319 PS | \$32.00 ea



0-60VDC @ 10A Linear Bench Supply

29960 PS | \$279.95 ea



0-30VDC @ 3A Linear Bench Supply

29601 PS | \$99.95 ea



0-50VDC @ 3A Linear Bench Supply

29612 PS | \$109.95 ea



Dual 0-30VDC @ 3A Bench Supply

29623 PS | \$169.95 ea

Input: 110 VAC 60Hz
Outputs: #1: 0-30VDC @ 0-3A
#2: 0-30VDC @ 0-3A #3: 5VDC @ 3A fixed
Dual Constant Voltage or Current supply with 4 LED meters that displays Volts & Amps. Selectable Independent, Series or Parallel operation of Adj. supplies (0-60V/3A or 0-30V/6A). RMS ripple: 20mVp/p (CV) 50mA/p (CC) Front panel output Binding Posts. Metal case & rubber feet. Internal Temp. controlled fan



0-18VDC @ 3A Linear Bench Supply

29600 PS | \$64.95 ea

Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A

Constant Voltage or Current
Specifications/Features: True Constant Current (Can a short) Enclosed Linear bench supply with dual LCD displays for output Volts & Amps. .01%+3mV Line / .02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Metal case & rubber feet. Internal Temp. controlled fan.



0-30VDC @ 3A Switching Bench Supply

29616 PS | \$53.95 ea



0-30VDC @ 5A Switching Bench Supply

29617 PS | \$69.95 ea



0-30VDC @ 10A Linear Bench Supply

29604 PS | \$189.95 ea



0-30VDC @ 24A Switching Bench Supply

29317 PS | \$259.95 ea



0-30VDC @ 10A Switching Bench Supply

29631 PS | \$109.95 ea

Input: 110 VAC 60Hz
Output: 0-30VDC, 0-10A

Constant Voltage/Current
Specifications/Features: Adjustable Voltage/adjustable Current limit. Enclosed regulated switching bench supply with backlit LCD display for output Volts & Amps. 0.2%+10mV Line/0.2%+5mV Load regulation, <100mV RMS max ripple. Binding Posts Out

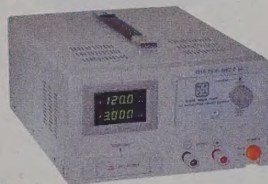


0-120VDC @ 3A Linear Bench Supply

29313 PS | \$285.95 ea

Input: 110 VAC 60Hz
Output: 0-120VDC @ 0-3A

Specifications/Features: Regulated Bench supply with Adjustable Current limit. LED meter displays Volts & Amps. Push button switch connects supply to load. Multi turn Voltage control for precise settings. 5mV RMS ripple. Front panel output Binding Posts & Terminal strip for remote Voltmeter Sensing at the load.



0-120VDC @ 1A Linear Bench Supply

29312 PS | \$139.95 ea



0-30VDC @ 19A Linear Bench Supply

29950 PS | \$289.95 ea



0-50VDC @ 30A Linear Bench Supply

29970 PS | \$745.00 ea



0-30VDC @ 16A Switching Bench Supply

29316 PS | \$169.95 ea



Handheld Adjustable Supply

32577 PS | \$149.95 ea

P/N: PS2002H

Input: 90-265VAC 50/60Hz

Output: 0-30VDC @ 50W

Limits: 3.75A @ 12V 1.6A @ 30V

Handheld switching supply with backlit LCD display and Adjustable Current Limit. Output On/Off button, USB Select button, Store & Recall function Button, Adjust Up/Down Buttons. Output Adjustable in 10mV/10mA increments.



Note: Very Heavy Power Supply
Must Be Shipped By Motor Carrier (Truck)



GENERAL SPECIFICATIONS

RoHS Compliant



High reliability line of power supplies designed to operate over the wide range of AC power found world wide.

- Overvoltage, Overcurrent, Short Circuit Protected
- No minimum load
UL/CANADA/USA/CE listed.
- 100% Full Load Burn-in Tested
Full rated to 50°C

MTBF: 100,000 Hours

Operating Temp. & Humidity: -10° C to +50° C
20%-93% Non Condensing

Storage Temp. & Humidity: -20° C to +85° C
20%-95% Non Condensing

Cooling: Convection

Approvals/Standards: cULus Ref. No.: E22014
Safety: GB4943, UL60950, EN60950
EMC: GB9254, EN55022 class B, EN55024
-3-2/3 EN61000-4-2/3/4/5/6/8/11

Line Regulation (Full Load): < +/- 0.5%

Load Regulation: .05% (0-100%)

Inrush Current: 20A/115V, 40A/230V

Input Leakage Current: <0.7mA @ 230VAC

Output Adjustment Range: +/- 10%

Overload Protection: 40/60W:110-150%-100/150W: 110-130%

Over Voltage Protection: 115-150%

Rise Time: 50mS Full Load (Typical)

Hold Up Time: 20mS Full Load (typical)

Withstand Voltage (1 Min.): Input to Output: 3.0KV AC
Input to Frame/Ground: 1.5KV AC
Output to Frame/Ground: 0.5KV AV

15W SUPPLIES



STOCK #	OUTPUT	PART #
18438-PS	5V/3A	HF15W-SPL-5
18439-PS	12V/1.3A	HF15W-SPL-12
18440-PS	24V/0.6A	HF15W-SPL-24
18441-PS	48V/0.3A	HF15W-SPL-48

Qty: 1-9 \$15.99 ea | Qty: 10-99 \$14.95

Input: 85-264 VAC 47-63Hz Universal
L: 4.0" W: 1.82" H: 1.0" Wt: .2lb

25W SUPPLIES



STOCK #	OUTPUT	PART #
17320-PS	3.3V/6A	HF25W-SL-3.3
17321-PS	5V/5A	HF25W-SL-5
17322-PS	12V/2.1A	HF25W-SL-24
17323-PS	15V/1.7A	HF25W-SL-15
17325-PS	48V/0.57A	HF25W-SL-48

Qty: 1-9 \$14.90 ea | Qty: 10-99 \$12.60

Input: 85-264 VAC 47-63Hz Universal
L: 3.88" W: 3.23" H: 1.38" Wt: .6lb

40W SUPPLIES



STOCK #	OUTPUT	PART #
16000-PS	5V/8A	HF-40W-SL5
16001-PS	12V/3.5A	HF-40W-SL12
16002-PS	15V/2.8A	HF-40W-SL15
16003-PS	24V/1.8A	HF-40W-SL24
16004-PS	48V/0.8A	HF-40W-SL48

Qty: 1-9 \$16.00 ea | Qty: 10-99 \$15.49

Input: 85-264 VAC 47-63Hz Universal
L: 5.08" W: 3.86" H: 1.57" Wt: 1.1lb

60W SUPPLIES

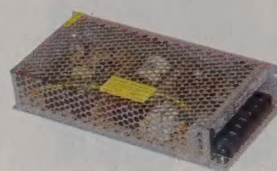


STOCK #	OUTPUT	PART #
16005-PS	5V/12A	HF-60W-SL5
16006-PS	12V/5A	HF-60W-SL12
16007-PS	15V/4A	HF-60W-SL15
16008-PS	24V/2.5A	HF-60W-SL24
16009-PS	48V/1.3A	HF-60W-SL48

Qty: 1-9 \$19.95 ea | Qty: 10-99 \$18.90

Input: 85-264 VAC 47-63Hz Universal
L: 6.3" W: 3.86" H: 1.54" Wt: 1.2lb

100W SUPPLIES



STOCK #	OUTPUT	PART #
16010-PS	3.3V/20A	HF-100W-SF3.3
16011-PS	5V/20A	HF-100W-SF5
16012-PS	7.5V/13.5A	HF-100W-SF7.5
16014-PS	15V/6.7A	HF-100W-SF15
16016-PS	48V/2.2A	HF-100W-SF48

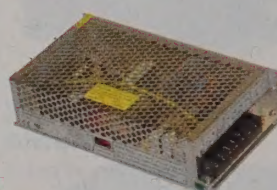
Qty: 1-9 \$26.50 ea | Qty: 10-99 \$25.60

STOCK #	OUTPUT	PART #
16013-PS	12V/8.5A	HF-100W-SF12
16015-PS	24V/4.5A	HF-100W-SF24

Qty: 1-9 \$21.69 ea | Qty: 10-99 \$18.95

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 3.86" H: 1.54" Wt: 1.5lb

150W SUPPLIES



STOCK #	OUTPUT	PART #
16017-PS	5V/30A	HF-150W-SF5
16018-PS	7.5V/20A	HF-150W-SF7.5
16019-PS	9V/17A	HF-150W-SF9
16033-PS	28V/5.5A	HF-150W-SF28
16034-PS	36V/4.2A	HF-150W-SF36

Qty: 1-9 \$28.60 ea | Qty: 10-99 \$27.95

STOCK #	OUTPUT	PART #
16020-PS	12V/12.5A	HF-150W-SF12
16032-PS	24V/6.5A	HF-150W-SF24

Qty: 1-9 \$26.85 ea | Qty: 10-99 \$23.69

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb

240W SUPPLIES



STOCK #	OUTPUT	PART #
18434-PS	5V/40A	HF-240W-SF5
18437-PS	48V/5A	HF-240W-SF48

Qty: 1-9 \$45.00 ea | Qty: 10-99 \$38.90

STOCK #	OUTPUT	PART #
18435-PS	12V/18A	HF-240W-SF12
18436-PS	24V/10A	HF-240W-SF24

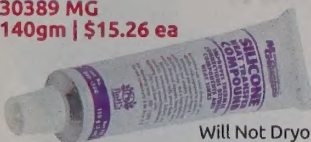
Qty: 1-9 \$34.95 ea | Qty: 10-99 \$32.49

Input Selectable: 85-132 VAC 47-63Hz
170-264 VAC 47-63Hz
L: 7.83" W: 4.33" H: 1.97" Wt: 1.6lb



Heat Sink Compound, #860, Squeeze Tube MG Chemical

30389 MG
140gm | \$15.26 ea



Will Not Dryout
Harden or
Separate

Flux Remover #4140 400gm MG Chemical

30364 MG
400gm | \$13.34 ea

Removes all Rosin,
Non-rosin, No-clean,
Ionic & Non-ionic Flux &
Residue



Silicone Conformal Coating, #422 MG Chemical

30366 MG
340gm | \$18.95 ea

Protects Against
Moisture, Dirt,
Arcing & Shorts



Isopropyl Alcohol 99.9%, #824, Quart Bottle MG Chemical

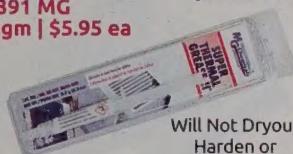
30373 MG
1qt | \$12.95 ea



Thermal Grease II, #8616, Syringe MG Chemical

30391 MG
8.2gm | \$5.95 ea

High Thermal
conductivity



Will Not Dryout
Harden or
Separate

Electrosolve Contact Cleaner, #409B MG Chemical

30361 MG
140gm | \$7.75
30362 MG
340gm | \$13.34



Heavy Duty Flux Remover, #413B MG Chemical

30363 MG
425gm | \$17.95 ea



Isopropyl Alcohol Wipe, #824-W MG Chemical

30374 MG
pkg. 25 | \$11.45

Cleaner with
99.9% pure
Isopropyl
Alcohol



Thermal Conductive Adhesive, #8329TCS, Slow Cure MG Chemical

31968 MG
200ml | \$89.95 ea



Super Cold 134 #403A MG Chemical

30355 MG
185gm | \$10.19
30356 MG
400gm | \$13.87

100% Ozone Safe
HFC134A gas
(R-134)



Contact Cleaner with Silicone, #404B MG Chemical

30357 MG
140gm | \$7.85
30358 MG
340gm | \$12.39



Alcohol Wipes, General purpose, #8241-T, MG Chemical

30375 MG | \$8.95 ea

General Purpose
Cleaner with 70% pure
Isopropyl Alcohol



75Wipes

Thermal Conductive Adhesive, #8329TCS, Slow Cure MG Chemical

31967 MG
6ml | \$9.85 ea



Super Wash Cleaner/Degreaser, #406B MG Chemical

30359 MG
425gm | \$15.26 ea

Ozone Safe-No Residue
Non-conductive
Safe on plastics



Nu-Trol Control Cleaner, #401B MG Chemical

30350 MG
140gm | \$7.65 ea



Liquid Rosin Flux, #835 Bottle MG Chemical

30382 MG
100ml | \$8.95 ea



Thermal Conductive Adhesive, #8329TCM, Medium Cure MG Chemical

31969 MG
6ml | \$9.95 ea



Acrylic Conformal Coating, #419C MG Chemical

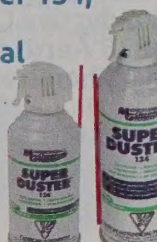
30365 MG
340gm | \$17.95 ea



Super Duster 134, #402A MG Chemical

30351 MG
285gm | \$9.51
30352 MG
450gm | \$14.79

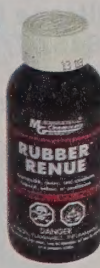
100% Ozone Safe
HFC134A gas
(R-134)



Rubber Renue, #408A Bottle MG Chemical

30360 MG
125ml | \$7.95 ea

Cleaner-Softner for
rubber belts & rollers



Extreme Electrical Conductivity Adhesive, #8330S Silver Filled MG Chemical

30379 MG
21gm | \$65.00 ea



Super Shield, Nickel Coating, #841, MG Chemical

30384 MG
340gm | \$36.95 ea

Conductive Nickel
Shielding Paint
Reduces EMI/RFI



Super Duster 152, #402B MG Chemical

30353 MG
285gm | \$7.45
30354 MG
400gm | \$9.95

Ozone Safe 99%
1,1-Difluoroethane



Solder Braid MG Chemical

30369 MG
#424 | \$2.85/5ft
30370 MG
425 | \$2.95/5ft
30371 MG
#426 | \$3.15/5ft
30372 MG
#442 | \$10.95/25ft

Oxygen Free
Copper



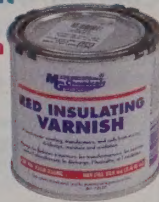
**Adhesive, Conductive
#8331, Silver Filled
MG Chemical**

30380 MG
14gm | \$39.95 ea



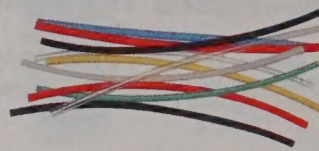
**Red GLPT Varnish,
#4228 Bottle
MG Chemical**

30367 MG
225ml | \$24.97 ea



**1/8" Heat Shrink As-
sortment, 6in. Long,
Color**

16831 HS | \$2.25 ea



**Heat Shrink Assort-
ment, 160Pcs. 4" Black**

32258 HS
\$11.95 ea



**Conductive Grease,
#846 Carbon Filled,
MG Chemical**

30386 MG
80gm | \$15.95 ea



**Potting Compound,
#832C Clear
MG Chemical**

30377 MG
375ml | \$29.61 ea



**3/16" Heat Shrink
Assortment, 6in. Long,
Color**

16832 HS | \$2.50 ea



**Heat Shrink Assort-
ment, 4" Long, Color**

16843 HS
\$11.95 ea



**Conductive Ink Pen,
#8420-P Silver Filled,
MG Chemical**

30385 MG
8.5gm | \$27.95 ea



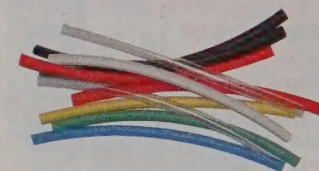
**Potting Compound,
#832B Black
MG Chemical**

30376 MG
375ml | \$30.57 ea



**1/4" Color Heat Shrink
Assortment, 6in. Long**

16833 HS | \$2.75 ea



**Heat Shrink Assort-
ment, 2-1/2" Long,
Black**

16835 HS
\$10.95 ea



**White Lithium Grease,
#8461 Squeeze Tube,
MG Chemical**

30387 MG
85ml | \$7.15 ea



**Potting Compound,
#833FRB Flame Retar-
dant - MG Chemical**

30378 MG
375ml | \$43.95 ea



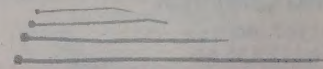
**3/8" Color Heat Shrink
Assortment, 6in. Long**

16834 HS | \$2.95 ea



**Natural Nylon Wire
Ties**

Pack of 100



20199 TY	4in	\$1.10
20200 TY	5-1/2in	\$1.70
24529 TY	7-1/2in	\$2.80
24530 TY	11in	\$5.00

**Silicone Grease,
#8462 Translucent
Squeeze Tube
MG Chemical**

30388 MG
85ml | \$12.39 ea



**Total Ground
Conductive Carbon
#838 Aerosol Can
MG Chemical**

30383 MG
340gm | \$18.95 ea



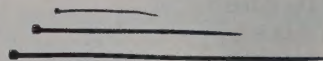
**Black Heat Shrink
Assortment
6in. Long**

16830 HS | \$3.95 ea



**Black Nylon Wire
Ties**

Pack of 100



11630 TY	4in	\$1.30
11508 TY	7-1/2in	\$2.50
11633 TY	11in	\$6.90

**Connector Coat
Black, #4229
Bottle
MG Chemical**

30368 MG
55ml | \$14.95 ea



**Adhesive, Conductive,
#8331S, Silver Filled
MG Chemical**

30381 MG
15GM | \$65.00 ea



**Adhesive/Screw
Mounts for Wire Ties**

33260 TY
\$3.95 pk

Pack of 100



**500pc. 4" Cable Ties
in 5 Colors**

34524 TY | \$4.95 ea

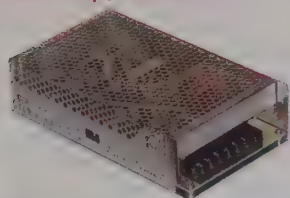


Power Supplies

Visit www.mpja.com for Complete Product Line

9VDC @ 16.7Amp Meanwell Supply

18367 PS | \$14.95 ea



12VDC 750mA USED Unreg. Plug Supply Leader 33475 PD | \$2.95 ea



9VDC 1A Adapter Power Supply Ault

32214 PS | \$4.95 ea

Includes
Power Cord.



Adjustable Boost DC/DC Converter

31397 PS | \$4.95 ea



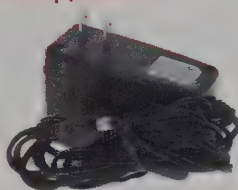
+5V, +3.3V, +24V & -12V Meanwell Supply

18366 PS | \$29.95 ea



12VDC 2.5A Plug Power Supply Netgear

33380 PS | \$6.95 ea



12VDC 2A Adapter Power Supply Sino

32483 PS | \$7.95 ea

Includes
Power Cord.



Adjustable Boost DC/DC Converter with Meter 33525 PS | \$7.95 ea

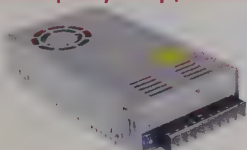


320W Hengfu Supplies

31340 PS | 5V/60A | \$59.95 ea

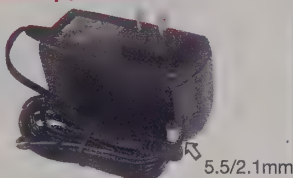
31342 PS | 12V/25A | \$59.95 ea

31344 PS | 24V/13A | \$59.95 ea

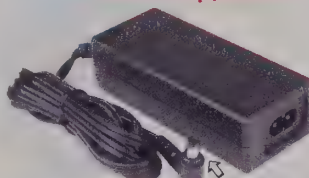


5VDC 4A Plug Power Supply Openpeak

18520 PS | \$6.95 ea

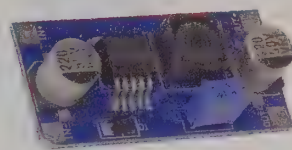


12VDC 2.5A Used Adapter Power Supply Leader 30201 PS | \$5.95 ea



Adjustable Buck DC/DC Converter

30148 PS | \$3.95 ea



5V & 12V DC 5A Power Supply

34293 PS | \$8.95 ea



HDD & FDD
Connectors

5VDC 2A Plug USB Power Supply

32736 PS | \$2.95 ea

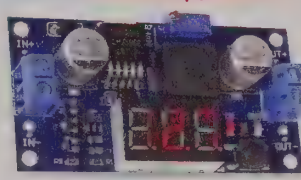


12VDC 3A Adapter Power Supply

34445 PS | \$6.95 ea



Adjustable Buck DC/DC Converter with Meter 30149 PS | \$9.95 ea



15V @ 3Amp Meanwell Supply 31506 PS | \$9.95 ea



9VDC 1A Power Supply Kenwood

19463 PS | \$2.95 ea



24VDC 5A Adapter Power Supply Megmeet

32885 PS | \$14.95 ea

Includes
Power Cord.



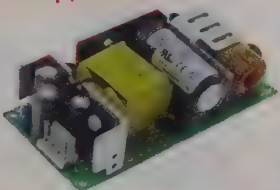
Constant Voltage & Current DC/DC Converter

31562 PS | \$4.95 ea



24V @ 2.7Amp SL Power Supply

33786 PS | \$9.95 ea



15VDC 900mA Power Supply iConnect

32486 PS | \$2.50 ea



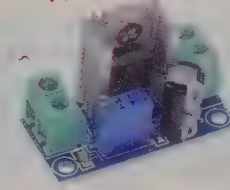
48VDC 2.08A Adapter Power Supply XP Power

32492 PS | \$18.95 ea



Adjustable DC/DC Regulator

31800 PS | \$2.95 ea



Toll Free Orders: 1-800-652-6733



\$6.95*

FLAT RATE SHIPPING



*Restrictions
Apply

Chassis Mount Transformers



Selecting Transformers

Volts & Current listed are nominal RMS. Open circuit and loaded values are different. Type of rectifier/filter circuit will effect secondary & output current and they can be very different.

Full wave center tap choke input filter:

Transformer secondary amps are .7 X required output amps.

Full wave center tap cap input filter:

Transformer secondary amps are 1.2 X required output amps.

For Full wave bridge choke input filter:

Transformer secondary amps are = to required output amps

For Full wave bridge cap input filter:

Transformer secondary amps are 1.8 X required output amps.

STOCK #	STYLE	INPUT	OUTPUT VOLTS	AMPS	LEADS	DIM. (LWH)	WT.	1EA
27838-TR	A	110/220VAC	12VAC (6V-0V-6V)	1A	6"	2-3/4" x 1-1/2" x 1-5/8"	.6	\$6.75
27839-TR	A	110/220VAC	12VAC (6V-0V-6V)	2A	6"	3-1/4" x 2" x 2"	1.3	\$8.95
27840-TR	A	110/220VAC	12VAC (6V-0V-6V)	4A	6"	4" x 2" x 2-1/4"	1.7	\$15.95
27841-TR	A	110/220VAC	18VAC (9V-0V-9V)	1A	6"	3" x 2" x 1-3/4"	.8	\$6.95
27842-TR	A	110/220VAC	18VAC (9V-0V-9V)	1.5A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$8.95
27843-TR	A	110/220VAC	18VAC (9V-0V-9V)	2A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$8.95
27844-TR	A	110/220VAC	24VAC (12V-0V-12V)	2A	6"	3-1/2" x 2-1/4" x 2"	1.4	\$11.95
27845-TR	A	110/220VAC	24VAC (12V-0V-12V)	4A	6"	3-7/8" x 2-1/2" x 2-1/4"	2.3	\$18.95
27846-TR	B	110/220VAC	24VAC (12V-0V-12V)	10A	6"	3-3/4" x 3-5/8" x 3-3/8"	5.5	\$39.95

The Transformers above have a Center tapped secondary allowing use of Half wave, Full wave center tap or Full wave bridge rectifier circuits.

500VA 0-130VAC Variable Power Transformer

15162 TR
\$59.95 ea



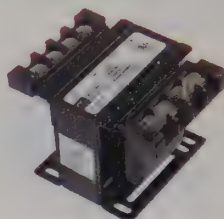
2KVA 0-130VAC Variable Power Transformer

15163 TR
\$114.95 ea



Control Transformer 120/220/240/480V 50VA

31833 TR | \$39.95 ea



Control Transformer 26.5V 40VA

32196 TR | \$7.95 ea



LED Driver 3W Output 85-265VAC Input

31536 PS | \$1.95 ea



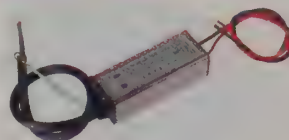
LED Driver 10W Output 90-264VAC Input

32817 PS | \$3.95 ea



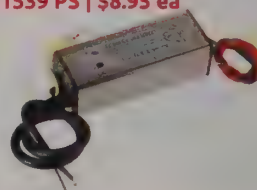
LED Driver 20W Output 110-260VAC Input

31538 PS | \$5.95 ea



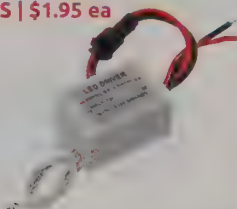
LED Driver 30W Output 110-260VAC Input

31539 PS | \$8.95 ea



LED Driver 3W Output 12VDC Input

31556 PS | \$1.95 ea



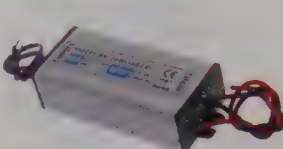
LED Driver 10W Output 12-24VAC/DC Input

31557 PS | \$3.95 ea



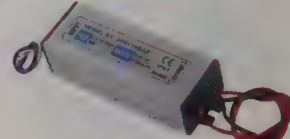
LED Driver 20W Output 12-24VDC Input

31558 PS | \$8.95 ea



LED Driver 30W Output 12-24VDC Input

31559 PS | \$8.95 ea



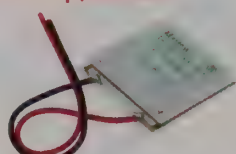
Sealed Lead Acid Re- chargeable Batteries

17280 BT | 6V 4Amp | \$7.95 ea
14817 BT | 6V 8Amp | \$19.95 ea
14819 BT | 12V 7Amp | \$22.95 ea



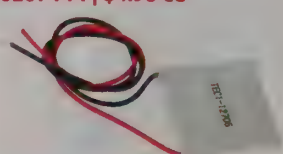
Thermoelectric Cooling Module 63 couple 12VDC

34134 PM | \$4.95 ea



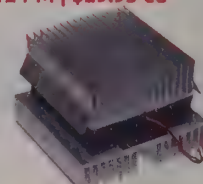
Thermoelectric Cooling Module 127 couple 12VDC

30207 PM | \$4.98 ea



Peltier Cooling Assembly, 12VDCut

15312 PM | \$29.95 ea



12Vdc 5 Meter Roll LEDs

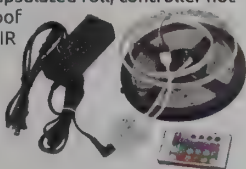
19434 OP | Cool White | \$12.95 ea
 33111 OP | Med. White | \$12.95 ea
 31362 OP | Red | \$12.95 ea
 19441 OP | Blue | \$12.95 ea

Water Resistant
 IP65 Rated
 PVC Encapsulated
 Strip with wire
 pigtails for con-
 nection.

**5 Meter Roll RGB LED, Controller and Supply**

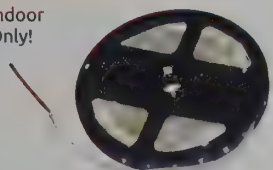
31541 OP | \$19.95 ea

PVC encapsulated roll, controller not
 waterproof
 Includes IR
 remote.

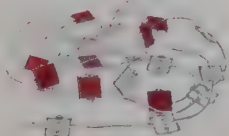
**12VDC 5 Meter Cool White LED Roll**

31192 OP | \$9.95 ea

Indoor
 Only!

**12VDC 72 Lumen Cool White 20 Module String**

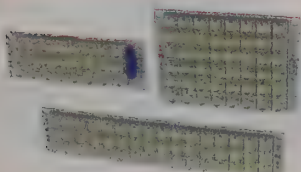
19438 OP | \$14.95 ea

**12VDC 36 Lumen Cool White 20 Module String**

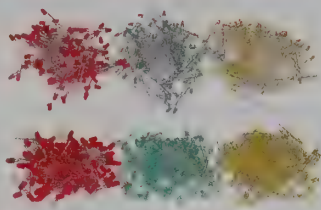
31366 OP | \$12.95 ea

**12VDC Cool White Piranha LED Boards**

32035 OP | 3 x 8 LEDs | \$4.95 ea
 33081 OP | 3 x 16 LEDs | \$9.95 ea
 33070 OP | 6 x 8 LEDs | \$9.95 ea

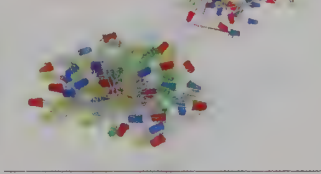
**Bulk Pack LEDs
100 per pack**

15101 OP | 3mm Red | \$1.95 ea
 15102 OP | 3mm Green | \$1.95 ea
 15103 OP | 3mm Yellow | \$1.95 ea
 15104 OP | 3mm Blue | \$2.95 ea
 15108 OP | 5mm Red | \$1.95 ea
 15307 OP | 5mm White | \$2.95 ea
 15308 OP | 5mm Green | \$1.95 ea
 15309 OP | 5mm Yellow | \$1.95 ea
 31363 OP | 5mm Blue | \$3.95 ea

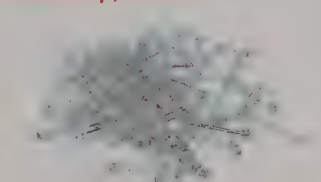
**Assortment Pack LEDs
100 per pack**

32674 OP | 3mm | \$2.95 ea
 32066 OP | 5mm | \$2.95 ea

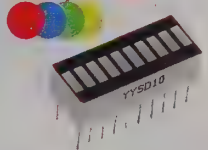
20 pieces each
 of: Red, Yellow,
 Green, Blue
 and White leds.

**Flashing RGB 5mm
LEDs Pack of 100**

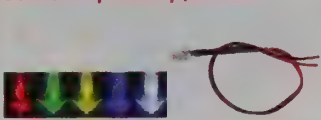
32889 OP | \$4.95 ea

**10 Segment
LED Bargraph**

32253 OP | Red | \$1.75ea
 32325 OP | Blue | \$1.75ea
 32326 OP | Green | \$1.75ea
 32327 OP | Yellow | \$1.75ea

**12VDC 5mm LED Lamps**

30124 LA | Red | \$0.75ea
 30125 LA | Green | \$0.75ea
 30126 LA | Yellow | \$0.75ea
 30127 LA | Blue | \$0.75ea
 30128 LA | White | \$0.75ea

**10 Watt LEDs**

31515 OP | Red | \$3.95 ea
 31516 OP | Green | \$3.95 ea
 31517 OP | Blue | \$2.95 ea
 31183 OP | Warm White | \$2.95 ea
 31518 OP | RGB | \$3.95 ea

Requires heatsink
 and current
 control power
 supply!

**High Lumen Cool
White LEDs**

31325 OP | 10 Watt | \$2.95 ea
 31326 OP | 20 Watt | \$7.95 ea
 31327 OP | 30 Watt | \$9.95 ea

Requires
 heatsink
 and current
 control power
 supply!

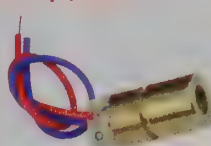
**10 Watt Infrared LEDs**

32621 OP | 730nm | \$22.95 ea
 32622 OP | 850nm | \$10.95 ea
 32623 OP | 940nm | \$9.95 ea

Requires
 heatsink
 and current
 control power
 supply!

**3VDC Mini LASER Head
635nm <5mw**

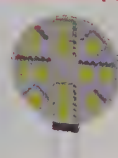
19566 LZ | \$2.25 ea

**5VDC LASER Diode
Red Crosshair
Pattern <5mw**

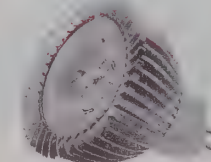
33029 LZ | \$2.95 ea

**12VDC Bi-Pin G-4
LED Modules**

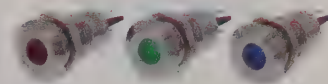
33410 OP | Warm White | \$1.95 ea
 33411 OP | Cool White | \$1.95 ea

**12V AC/DC 3Watt Cool
White MR-16 LED**

31975 OP | \$3.95 ea

**12V AC/DC LED
Indicators**

32750 LA | Red | \$2.49 ea
 32751 LA | Green | \$2.49 ea
 32752 LA | Blue | \$2.49 ea

**12V AC/DC 22mm LED
Indicators**

31087 LE | Red | \$2.95 ea
 31088 LE | Green | \$2.95 ea
 31089 LE | Yellow | \$2.95 ea

**10 Watt
Ultraviolet LEDs**

32614 OP | 365-367nm | \$49.95 ea
 32616 OP | 385-390nm | \$14.95 ea
 32617 OP | 395-400nm | \$14.95 ea
 32618 OP | 410-415nm | \$10.95 ea
 32619 OP | 420-430nm | \$9.95 ea

Requires heatsink
 and current
 control power
 supply!

**10mm Super Bright
Cool White LED
15000mcd**

15415 OP | \$0.15 ea
 Current limiting resistor required

**50 Micro LEDs in a
5 Meter String**

31985 OP | Cool White | \$5.95ea
 31984 OP | RGB Flashing | \$9.95ea



Runs on 3
 "AA" Cells



Solid State Relay

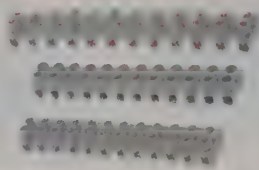
31931 RL | 10 Amp | \$5.95 ea
31932 RL | 25 Amp | \$8.95 ea
31933 RL | 40 Amp | \$10.95 ea

DC-AC
3-32VDC control
voltage. 24-
480VAC output
voltage SPST-NO
AC only



12 Position Euro Block

32940 TS | 10Amp | \$1.75 ea
32941 TS | 20Amp | \$1.85 ea
32675 TS | 30Amp | \$1.95 ea



Threaded locking connector pair

32420 PL | 2 Pin | \$1.95 ea
32421 PL | 3 Pin | \$1.95 ea
32423 PL | 5 Pin | \$1.95 ea
32426 PL | 8 Pin | \$1.95 ea



UL Hook-Up Wire



Handy spool of 100ft. General Purpose
300 Volt, 105Deg. "C", UL 1007/1569
Copper conductor Hook-up wire.

Solid State Relay

33980 RL | 10 Amp | \$6.95 ea
33981 RL | 25 Amp | \$9.95 ea
33932 RL | 40 Amp | \$11.95 ea

DC-DC
3-32VDC
control voltage.
5-60VDC output
voltage SPST-NO
DC only



Heat Sink for Solid State Relay

32434 HK | \$4.95 ea



Snap locking connector pair

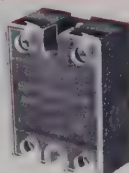
32567 PL | 2 Pin | \$2.89 ea
32568 PL | 3 Pin | \$2.89 ea
32569 PL | 4 Pin | \$2.89 ea
32570 PL | 5 Pin | \$2.89 ea



Solid State Relay

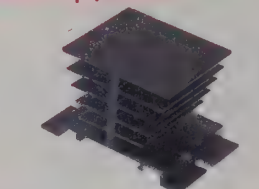
33984 RL | 10 Amp | \$6.95 ea
33985 RL | 25 Amp | \$8.95 ea
33986 RL | 40 Amp | \$11.95 ea

AC-AC
80-280VAC
control voltage.
24-480VAC output
voltage SPST-NO
AC only



Heat Sink for Solid State Relay

32052 HK | \$3.95 ea



200Amp Binding Posts Red & Black Pair

32937 PL | \$4.95 ea



SOLID 22AWG

STOCK #	DESC.	WT. 4
32270-WI	Solid Red	\$8.95
32271-WI	Solid Black	\$8.95
32272-WI	Solid Yellow	\$8.95
32273-WI	Solid Blue	\$8.95
32274-WI	Solid White	\$8.95
32275-WI	Solid Green	\$8.95

STRANDED 22AWG

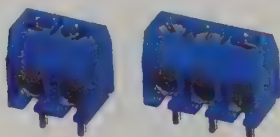
STOCK #	DESC.	WT. 4
32280-WI	Stranded Red	\$8.95
32281-WI	Stranded Black	\$8.95
32282-WI	Stranded Yellow	\$8.95
32283-WI	Stranded Blue	\$8.95
32284-WI	Stranded White	\$8.95
32285-WI	Stranded Green	\$8.95

STRANDED 18AWG

STOCK #	DESC.	WT. 4
32290-WI	Stranded Red	\$12.95
32291-WI	Stranded Black	\$12.95
32292-WI	Stranded Yellow	\$12.95
32293-WI	Stranded Blue	\$12.95
32294-WI	Stranded White	\$12.95
32295-WI	Stranded Green	\$12.95

PC Mount Terminal Strip

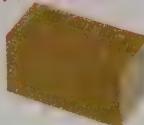
18318 TS | 2 Position | \$0.39 ea
18319 TS | 3 Position | \$0.49 ea
5mm spacing end stackable



DPDT DIP Relay

32555 RL | 3VDC | \$1.29 ea
32556 RL | 5VDC | \$1.29 ea
32558 RL | 9VDC | \$1.29 ea
32559 RL | 12VDC | \$1.29 ea
32560 RL | 24VDC | \$1.29 ea

HK19F Series DC
relays contacts
rated 1A/125VAC or
2A/30VDC

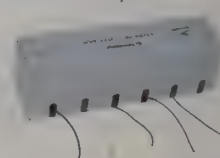


Adjustable 3 Axis Stage 33383 MI | \$169.95 ea



Solid 22Awg Hook Up Wire Set

32267 WI | \$15.95 ea
6 colors 25' each spool



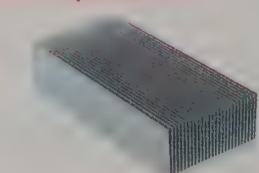
5.5mm Power Jacks

32104 PL | 5.5/2.1mm | \$1.49 ea
32105 PL | 5.5/2.5mm | \$1.49 ea
Metal Chassis mount connector with
solder tabs



5-7/8" x 2-3/4" x 1-7/16" Aluminum Heat Sink

32088 HK | \$12.95 ea



2 Axis X/Y Stage

33402 MI | \$139.95 ea



Stranded 22Awg Hook Up Wire Set

32269 WI | \$15.95 ea
6 colors 25' each spool



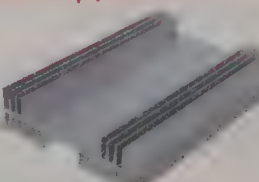
5.5mm Power Adaptors

19452 PL | 2.1mm Plug | \$0.89 ea
19453 PL | 2.5mm Plug | \$0.89 ea
19454 PL | 2.1mm Jack | \$0.89 ea
19455 PL | 2.5mm Jack | \$0.89 ea
Adapts wire leads to coaxial/barrel
power connectors Screw terminals to
5.5mm O/D plugs and Jacks.



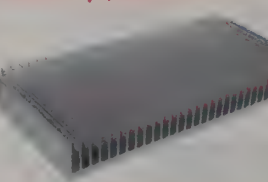
10" x 7" x 2" Aluminum Heat Sink

33305 HK | \$23.95 ea



15-3/4" X 7-13/16" X 2" Aluminum Heat Sink

33306 HK | \$59.95 ea



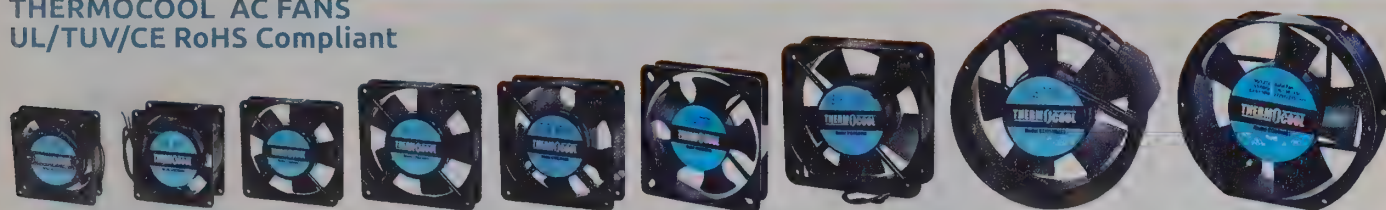
Wire Wrap Wire 30AWG

33125 WI | Red | \$7.95 ea
33126 WI | Black | \$7.95 ea
33129 WI | Green | \$7.95 ea

Approximately 650ft.



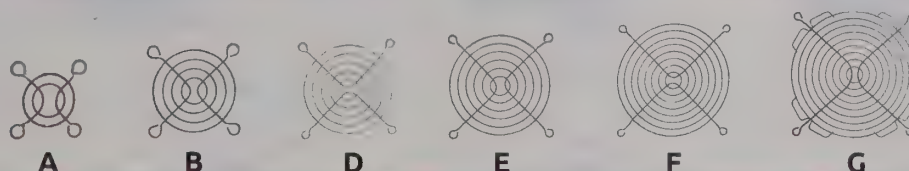
THERMOCOOL AC FANS
UL/TUV/CE RoHS Compliant



STOCK#	FIG.	P/N	DIAM	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	WT	1EA	12+EA
17771-FN	A	G8025HAS	3-1/8" SQ X 1"	125AC/.13	23	30	SLV.	WIRE	.6	\$9.95	\$8.95
17772-FN	B	G8038HAS	3-1/8" SQ X 1-1/2"	125AC/.14	28	33	SLV.	WIRE	.6	\$14.95	\$12.95
17773-FN	C	G9225HAS	3-5/8" SQ X 1"	125AC/.14	34	40	SLV.	TERM	.5	\$9.95	\$8.95
17774-FN	D	G12025HAS	4-11/16" SQ X 1"	125AC/.20	66	42	SLV.	TERM	.75	\$9.95	\$8.95
17775-FN	E	G12038HAS	4-11/16" SQ X 1-1/2"	125AC/.28	95	48	SLV.	TERM	1.1	\$12.95	\$10.95
17776-FN	E	G12038MAB	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	BALL	TERM	1	\$15.95	\$12.95
17777-FN	E	G12038MAS	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	SLV.	TERM	1.1	\$11.95	\$9.95
17778-FN	F	G13538HAS	5-5/16" SQ X 1-1/2"	125AC/.34	122	53	SLV.	WIRE	1.2	\$14.95	\$12.95
17779-FN	G	G15050HAS	6" SQ X 2"	125AC/.40	198	58	SLV.	WIRE	1.9	\$22.95	\$19.95
17780-FN	H	G17050HASB	6-3/4" RND X 2"	125AC/.40	198	59	BALL	TERM	1.8	\$22.95	\$19.95
17781-FN	I	G17050HAST	6-3/4" X 6 X 2"	125AC/.40	198	59	BALL	TERM	1.9	\$22.95	\$19.95

FAN GUARDS

PICTURES ARE REPRESENTATIVE OF THE STYLE AND MAY NOT BE EXACT.

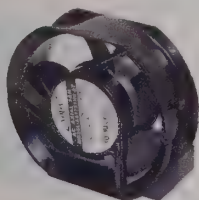


STOCK#	FIG.	FAN SIZE	STYLE	MOUNTING	MAT.	FINISH	WT.	1EA	10+EA
18383-FN	A	1-9/16"/40MM	OFFSET	4 CORNERS	STEEL	CHROME	.01	\$0.99	\$0.89
18384-FN	B	2-3/8"/60MM	OFFSET	4 CORNERS	STEEL	CHROME	.03	\$0.99	\$0.89
18386-FN	D	3-1/8"/80MM	OFFSET	4 CORNERS	STEEL	CHROME	.04	\$1.25	\$0.99
18387-FN	E	3-5/8"/90MM	OFFSET	4 CORNERS	STEEL	CHROME	.05	\$1.25	\$0.99
18388-FN	F	4-11/16"/120MM	OFFSET	4 CORNERS	STEEL	CHROME	.08	\$1.39	\$1.25
17815-FN	G	5"/127MM	OFFSET	4 CORNERS	STEEL	CHROME	.13	\$0.49	\$0.49

120VAC 6-3/4" Fan

31876 FN | \$22.95 ea
172mm X 50mm X 150mm

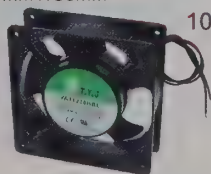
210cfm



120VAC 4-11/16" X 1-1/2" Fan

33012 FN | \$8.95 ea
120mm X 38mm

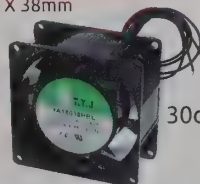
105cfm



120VAC 3-1/2" x 1-1/2" Fan

33010 FN | \$7.95 ea
80mm X 38mm

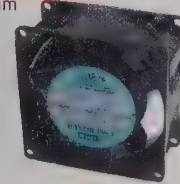
30cfm



230VAC 3-1/2" X 1-1/2" Fan

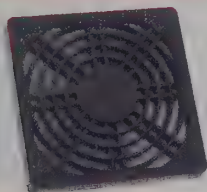
33489 FN | \$5.95 ea
80mm X 38mm

28cfm



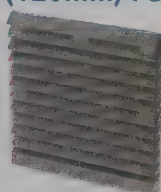
Plastic Guard & Filter

33403 FN | 80mm | \$1.79 ea
33404 FN | 120mm | \$1.95 ea



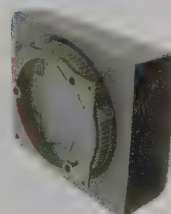
Louvered Fan Guard with Dust Filter for 4-11/16" (120mm) Fan

33406 FN \$3.95 ea



Cabinet Vent with Dust Filter and Bracket

33405 FN \$9.95 ea



4 plugs 27" Fan Cord

30347 FN | \$1.95 ea



5VDC 2-3/8" X 1" Fan

33704 FN | \$2.95 ea
60mm X 25mm

19cfm

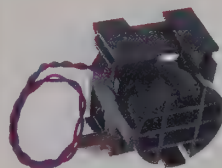


5VDC 1-9/16" X 3/8" Fan/Blower

34467 FN | \$3.95 ea

~4.6cfm

Detachable
Flow
director



5VDC 1-9/16" X 3/8" Fan

31854 FN | \$2.95 ea
40mm X 10mm

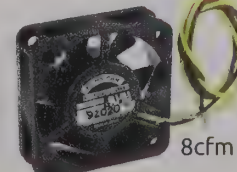
~6cfm



5VDC 1-9/16" X 1/2" Fan

31414 FN | \$1.95 ea
40mm X 13mm

8cfm



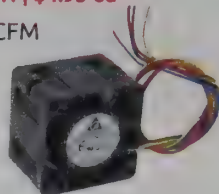
12VDC 2" X 3/8"
T&T Fan 50mm X 10mm
12773 FN | \$1.65 ea

9 CFM



12VDC 1-1/2" X 1-1/8"
Delta Fan 38mm X 28mm
33157 FN | \$4.95 ea

~17CFM



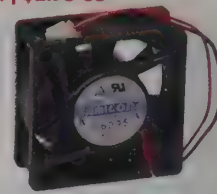
12VDC 2-3/8" X 3/4"
Delta Fan 60mm X 20mm
32786 FN | \$2.95 ea

~13 CFM



12VDC, 2-3/8" X 1"
Jamicon Fan 60mm X 25mm
17526 FN | \$2.95 ea

~17CFM



12VDC 2-3/8" X 1"
Boxer Fan 60mm X 25mm
33482 FN | \$2.95 ea

13.4CFM



12VDC 2-3/4" X 3/4"
AVC Fan 70mm X 20mm
32788 FN | \$2.95 ea

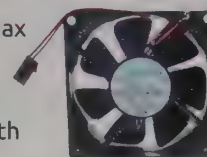
~54 CFM



12VDC, 3-1/8" X 1"
NMB Fan 80mm X 25mm
34412 FN | \$4.95 ea

42CFM Max

Speed
Varies with
Temp.



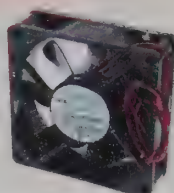
12VDC 3-1/8" X 1"
NMB Fan 80mm X 25mm
32685 FN | \$5.95 ea

~25 CFM



12VDC, 3-1/8" X 1"
NMB Fan 80mm X 25mm
34550 FN | \$2.95 ea

25CFM



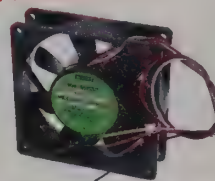
12VDC 3-1/8" X 1"
NMB Fan 80mm X 25mm
33480 FN | \$2.49 ea

35CFM



12VDC 3-5/8" X 1"
NMB Fan 90mm X 25mm
34001 FN | \$2.95 ea

35CFM

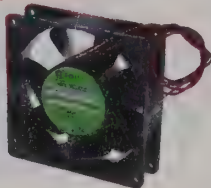


12VDC 3-5/8" X 1 1/16" Fan 92mm X 25mm
19387 FN | \$5.95 ea



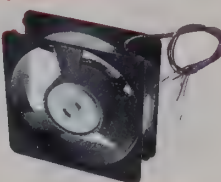
12VDC 3-5/8" X 1"
NMB Fan 90mm X 25mm
33484 FN | \$2.95 ea

31CFM



12VDC 4-11/16" X 1-1/2" Fan 120mm X 38mm
33923 FN | \$8.95 ea

85CFM



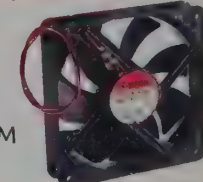
12VDC 4-11/16" X 1"
Sunon Fan 120mm X 25mm
32610 FN | \$4.95 ea

90CFM



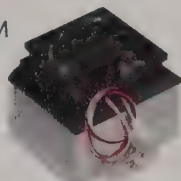
12VDC 4-11/16" X 1"
Sunon Fan 120mm X 25mm
31203 FN | \$4.95 ea

108CFM

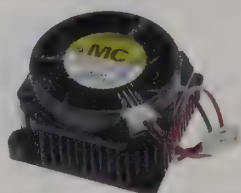


12VDC Fan & Heatsink
17045 HK | \$4.95 ea
 60mm X 80mm X 64mm

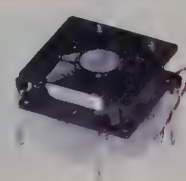
~14CFM
Fan



12VDC Fan & Heatsink
33477 HK | \$19.95 ea
 50mm X 50mm X 30mm

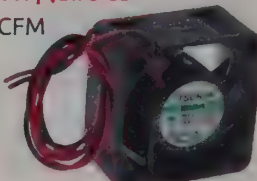


12VDC Fan & Heatsink
18710 HK | \$4.95 ea
 Fan 80mm X 80mm X 25mm



24VDC 1-9/16" X 3/4"
Sunon Fan 40mm X 20mm
33785 FN | \$3.95 ea

~7.7 CFM



24VDC 2-3/8" X 13/16"
Fan Globe 60mm X 20mm
33483 FN | \$1.95 ea

~13 CFM



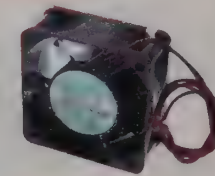
24VDC 4-11/16" X 1"
Fan 125mm X 25mm
32921 FN | \$5.95 ea

~80 CFM



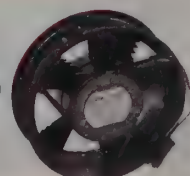
24VDC 4-11/16" X 1-1/2"
NMB Fan 120mm X 38mm
34410 FN | \$8.95 ea

83CFM

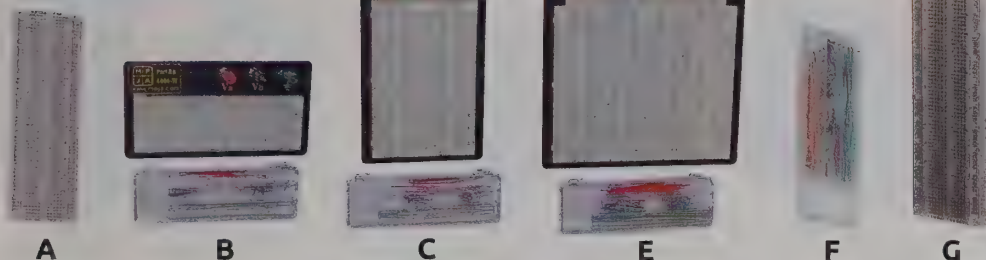


24VDC 6-3/4" X 2"
Fan 172mm X 51mm
19297 FN | \$19.95 ea

235CFM



Solderless Breadboards



65 Piece Breadboard Jumper Pin Set

30116 PL | \$3.95 ea

Male to Male



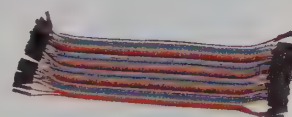
40pc Header Jumper

30117 PL | F to F | \$3.95 ea

31217 PL | M to M | \$3.95 ea

31218 PL | M to F | \$2.72 ea

M = Male F = Female



White ABS plastic body (except G clear), B, C & E come with metal mounting base. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards, Suitable for 19-29 AWG wire & all DIP size components. Please visit our web site for more detailed information.

STOCK #	FIG.	DESC.	SIZE L X W	WT.	TEA	10+EA
24443-TE	A	830 point	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95
24444-TE	B	830 point 3 Binding Post and Jumper Kit	7-7/8" X 4-1/8"	.8	\$9.95	\$8.95
24445-TE	C	1660 point 3 Binding Post and Jumper Kit	8-3/8" X 5-1/8"	.9	\$12.95	\$12.45
24447-TE	E	3220 point 4 Binding Post and Jumper Kit	10-3/8" X 9-1/8"	2	\$22.95	\$21.95
27027-TE	F	140 Piece 22 AWG Jumper Wire Kit		.3	\$3.95	\$3.49
18103-TE	G	830 point Clear ABS Body	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95

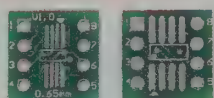
Powered Breadboard

32920 TE | \$99.95 ea



8 Pin SOP Adapter Board Double Sided

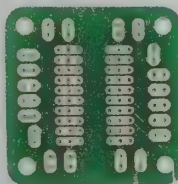
31456 PB | \$0.59 ea



20 pin IC Proto Board

32540 PB | \$1.00 ea

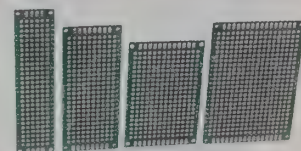
Single Sided .062" FR-4 board, .1" pad spacing



Proto Board Set of 4

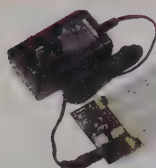
32065 PB | \$2.95 set

FR-4 boards with .1" spacing. One each of the following: 30123 PB, 31091 PB, 31169 PB and 31253 PB.



Powered Breadboard

30176 TE | \$10.95 ea



10 Pin SOP Adapter Board Double Sided

31457 PB | \$0.59 ea



Proto Boards

32891 PB | 170 holes | \$1.00 ea

32892 PB | 276 holes | \$1.95 ea

32893 PB | 830 holes | \$4.95 ea

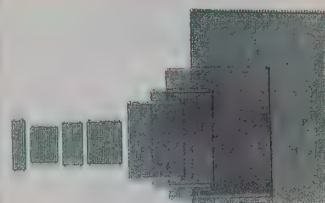
Based on the breadboard pattern



FR-4 Proto Boards

Double sided, .1" pad spacing, Plated thru copper pads. Sold Individually

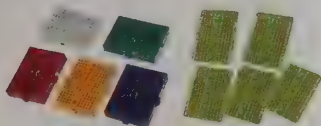
30123 PB | 2cm X 8cm | \$0.99 ea
31091 PB | 4cm X 6cm | \$1.29 ea
31253 PB | 3cm X 7cm | \$1.19 ea
31169 PB | 5cm X 7cm | \$1.79 ea
32011 PB | 8cm X 12cm | \$4.95 ea
32012 PB | 9cm X 15cm | \$5.95 ea
32013 PB | 15cm X 20cm | \$9.95 ea
32014 PB | 20cm X 30cm | \$19.95 ea



Proto Board Special

33353 MI | \$6.95 ea

5 pieces of 170 tie point breadboard and 5 pieces of 170 tie point proto board for one low price.



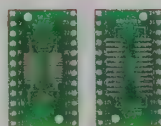
14 Pin SOP Adapter Board Double Sided

31864 PB | \$0.69 ea



24 Pin SOP Adapter Board Double Sided

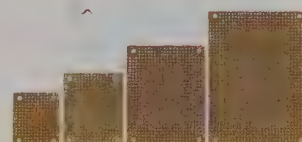
31461 PB | \$0.99 ea



Phenolic Proto Boards

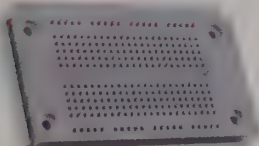
Single sided, .1" pad spacing, unplated copper pads. Sold Individually

15918 PB | 44mm X 39mm | \$0.59 ea
16227 PB | 60mm X 50mm | \$0.79 ea
15914 PB | 82mm X 64mm | \$1.10 ea
15912 PB | 110mm X 80mm | \$1.75 ea



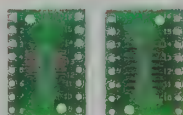
230 Tie Point Mini Solderless Breadboard, Unmounted

18862 TE | \$2.95 ea



16 Pin SOP Adapter Board Double Sided

31459 PB | \$0.69 ea



20 Pin SOP Adapter Board Double Sided

31460 PB | \$0.69 ea

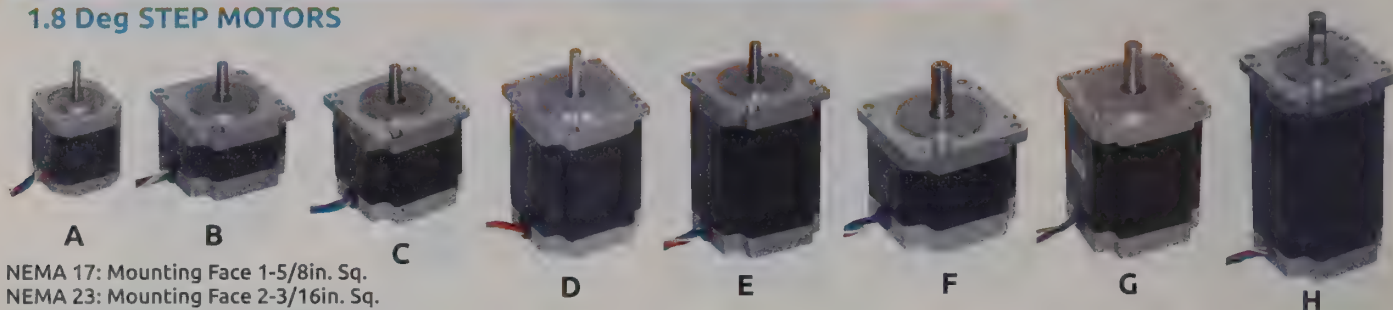


28 Pin SOP Adapter Board Double Sided

31462 PB | \$0.89 ea



1.8 Deg STEP MOTORS



NEMA 17: Mounting Face 1-5/8in. Sq.

NEMA 23: Mounting Face 2-3/16in. Sq.

NEMA 34: Mounting Face 3-3/8in. Sq.

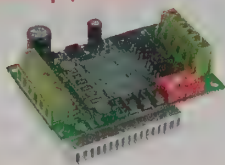
Note: * Indicated Step Motor has a DUAL SHAFT.

Additional Information Available On our website

STOCK #	FIG.	NEMA	VDC	A	W	HLD. TORQ.	P/W	TYPE	LENGTH (lead)	SHAFT	WT.	1&A
18735-MS	A	17	5.2V	.5	10.5	1.5Kg/cm	42BHH34-050A-18	6 lead	1-3/8"	5 X 17mm	.5	\$9.95
18733-MS	A	17	12V	.31	38	1.6Kg/cm	42BHH34-031A-18G	6 lead	1-3/8"	5 X 17mm/flat	.5	\$9.95
17453-MS	A	17	5.2V	1	5.2	3.2Kg/cm	42BHH48-100E-24	6 lead	2"	5 X 22mm	.84	\$15.95
18734-MS	A	17	12V	.4	30	3.2Kg/cm	42BHH48W-040B-24	6 lead	1-7/8"	5 X 22mm	.76	\$10.95
18686-MS	B	23	2.8V	2	1.4	4.2Kg/cm	57BHH41-200B-21	6 lead	1-5/8"	6.35 X 19mm	1	\$17.95
17454-MS	B	23	24V	.34	71	4.4Kg/cm	57BHH41-034A-21	6 lead	1-5/8"	6.35 X 19mm	1	\$17.95
17455-MS	C	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21N	6 lead	2-3/8"	6.35 X 19mm	1.6	\$14.95
18728-MS	C*	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21DH	6 lead	2-3/8"	6.35 X 20mm/Dual	1.6	\$15.95
18189-MS	D	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-25C	6 lead	3"	6.35 X 25mm	2.3	\$23.95
18729-MS	D*	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-26DA	6 lead	3"	6.35 X 24mm/Dual	2.4	\$23.95
18687-MS	D	23	4.5V	2.5	1.8	18Kg/cm	57BHH76-250E-21G	6 lead	3"	6.35 X 25mm	3.4	\$24.95
17456-MS	E	23	3.6V	3	1.2	21Kg/cm	57BHH82-300E-21U	6 lead	3-1/4"	6.35 X 19mm	2.6	\$34.95
17458-MS	F	34	3.0V	3	1	23Kg/cm	86BHH76-400C-35	6 lead	3"	13 X 35mm	4.7	\$54.95
18190-MS	G	34	6.0VDC	2	3	48Kg/cm	86BHH114-200C-37BS	8 lead	4-17/32"	13 X 35mm	8.1	\$68.00
17457-MS	H	34	7.8VDC	2	3.9	63Kg/cm	86BHH150-200A-37BS	8 lead	6"	13 X 35mm	11	\$79.95

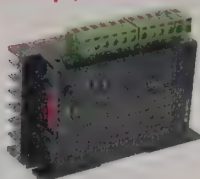
3A Step Motor Driver

31306 MS | \$14.95 ea



3.5A Step Motor Driver

32383 MS | \$19.95 ea



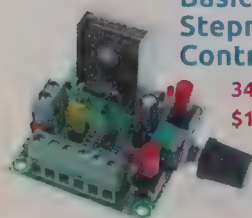
4A Step Motor Driver

32381 MS | \$17.95 ea



Basic Stepmotor Controller

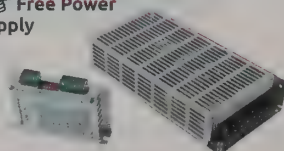
34114 MS
\$12.95 ea



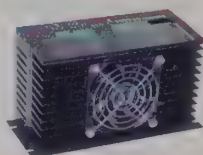
1.5A Step Motor Driver

18187 MS | \$54.90 ea

Free Power Supply

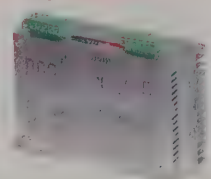


AC Powered Step Motor Driver 18727 MS | \$169.95 ea



6A Step Motor Driver

18188 MS | \$96.00 ea



Linear Drive Belt Kit

32387 MI | \$8.95 ea



GT2X 6mm

Flexible Helical Cut Couplers

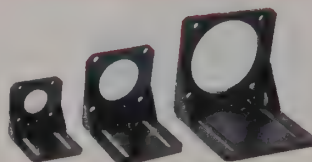
Aluminum Dual Set Screws



- 33600 HD | 3mm to 4mm | \$3.95 ea
- 33601 HD | 3mm to 6mm | \$3.95 ea
- 33602 HD | 3mm to 1/4" | \$3.95 eav
- 33603 HD | 4mm to 5mm | \$3.95 ea
- 33604 HD | 4mm to 6mm | \$3.95 ea
- 33605 HD | 4mm to 1/4" | \$3.95 ea
- 33606 HD | 4mm to 8mm | \$3.95 ea
- 33607 HD | 4mm to 10mm | \$3.95 ea
- 33608 HD | 5mm to 6mm | \$3.95 ea
- 33609 HD | 5mm to 1/4" | \$3.95 ea
- 33610 HD | 5mm to 8mm | \$3.95 ea
- 33611 HD | 6mm to 6mm | \$3.95 ea
- 33612 HD | 6mm to 1/4" | \$3.95 ea
- 33613 HD | 6mm to 8mm | \$3.95 ea
- 33614 HD | 6mm to 10mm | \$3.95 ea
- 33615 HD | 1/4" to 1/4" | \$3.95 ea
- 33617 HD | 1/4" to 8mm | \$3.95 ea
- 33619 HD | 7mm to 7mm | \$3.95 ea
- 33620 HD | 7mm to 8mm | \$3.95 ea
- 33621 HD | 8mm to 8mm | \$3.95 ea
- 33622 HD | 8mm to 10mm | \$3.95 ea
- 33623 HD | 10mm to 10mm | \$3.95 ea

Step Motor Bracket

32431 MS | Nema 17 | \$4.95 ea
32379 MS | Nema 23 | \$4.95 ea
32432 MS | Nema 34 | \$8.95 ea



Rigid Shaft Coupler

33557 HD | 5mm to 5mm | \$2.95 ea

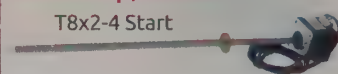
33560 HD | 5mm to 8mm | \$2.95 ea



300mm Leadscrew Step Motor

33515 MS | \$29.95 ea

T8x2-4 Start



NEMA 17 Step Motor 100mm Leadscrew

31564 MS | \$29.95 ea

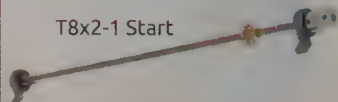


T8x2-4 Start

350mm Leadscrew Kit

32396 HD | \$19.95 ea

T8x2-1 Start



Step Motors

Visit www.mpja.com for Complete Product Line

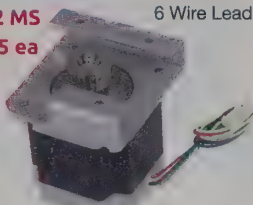
2.7V 1.8 Deg NEMA 23 Step Motor

30460 MS | \$7.95 ea
4 Wire Leads



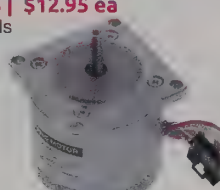
2.3V 1.8 Deg NEMA 23 Step Motor

31392 MS | \$18.95 ea
6 Wire Leads



9V 1.8 Deg NEMA 23 Step Motor

32493 MS | \$12.95 ea
4 Wire Leads



3V 1.8 Deg NEMA 23 Step Motor

18854 MS | \$14.95 ea
6 Wire Leads



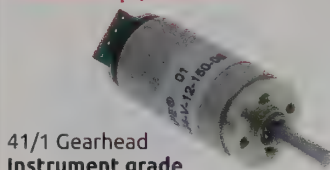
2.5V 1.8 Deg NEMA 23 Step Motor

31394 MS | \$8.95 ea
6 Wire Leads



12V Gearhead Step Motor

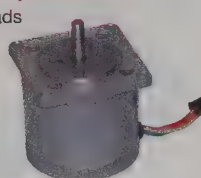
34480 MS | \$29.95 ea



41/1 Gearhead
Instrument grade

USED 24V 1.8 Deg NEMA 23 Step Motor

15837 MS | \$8.95 ea
5 Wire Leads



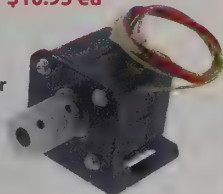
3.84V 1.8 Deg NEMA 23 Step Motor

17607 MS | \$9.95 ea
5 Wire Leads



10.4V 1.8 Deg NEMA 17 Step Motor

33449 MS | \$10.95 ea
4 Wire Leads with Mtg. Bracket and 8mm Coupler



10.4V 1.8 Deg NEMA 17 Step Motor

33448 MS | \$10.95 ea
4 Wire Leads with Mtg. Bracket and 1/4" Coupler



10.4V 1.8 Deg NEMA 17 Step Motor

33358 MS | \$12.95 ea
Includes COG Belt and Gear set.



4 Wire Leads

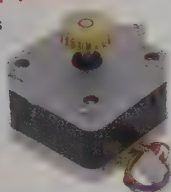
10.4V 1.8 Deg NEMA 17 Step Motor

33356 MS | \$7.95 ea
4 Wire Leads



3.5V 3.75 Deg NEMA 17 Step Motor

32101 MS | \$5.95 ea
4 Wire Leads



5V Leadscrew Micro Step Motor

32378 MS | \$1.95 ea
4 P.C. Mount Leads



12V 1.8 Deg NEMA 14 Step Motor

18688 MS | \$13.75 ea
6 Wire Leads



12V 1.8 Deg NEMA 14 Step Motor

18689 MS | \$13.75 ea
4 Wire Leads



0.72 Deg Penta Drive NEMA 11 Step Motor

31130 MS | \$5.95 ea
5 Phase Bi-Polar



5 Wire Leads

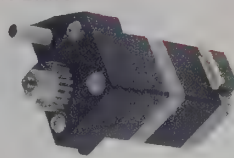
56V Gearhead Step Motor

18891 MS | \$14.95 ea
4 Wire Leads



2.66V .1 Deg NEMA 11 Step Motor

31129 MS | \$9.95 ea
6 Wire Leads



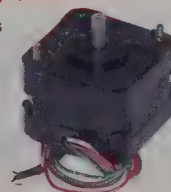
1.8 Deg NEMA 17 Step Motor

19533 MS | \$9.95 ea
4 Wire Leads



24V 3.6 Deg NEMA 17 Step Motor

18885 MS | \$1.95 ea
5 Wire Leads



12V 3.75 Deg Step Motor

31393 MS | \$1.95 ea
4 Wire Leads



Linear Actuator

34750 MS | \$19.95 ea

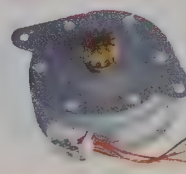


Bi-Phase
Encoder

5V NEMA 14 Stepmotor

24V 7.5 Deg Step Motor

18368 MS | \$1.95 ea
5 Wire Leads



Toll Free Orders: 1-800-652-6733



\$6.95*

FLAT RATE SHIPPING



*Restrictions Apply



12VDC Gear Motors
37 mm dia X 51mm long motor plus
6mm dia. X 14mm shaft, bronze
bearings. Six M3x0.5 mounting holes
in front. Solder terminals

32203 MD | 5 RPM | \$12.95 ea
32204 MD | 30 RPM | \$12.95 ea
32205 MD | 50 RPM | \$12.95 ea
32206 MD | 100RPM | \$12.95 ea

37mm Motor Bracket

33574 MD | \$3.95 ea



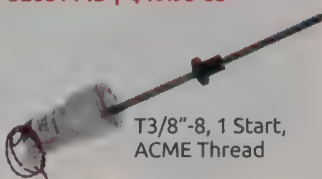
3-6VDC Motor & Tire

32064 MD | \$3.95 ea



**24VDC Leadscrew Gear
Head Motor**

32681 MD | \$19.95 ea



T3/8"-8, 1 Start,
ACME Thread

12VDC ACME Gear

Motor 32575 MD | \$19.95 ea



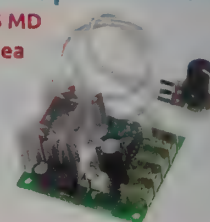
**24VDC Gear Head
Motor**

32684 MD | \$19.95 ea



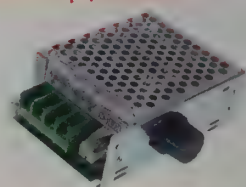
**6-24VDC 20Amp Max
Motor Speed Control**

31566 MD
\$8.95 ea



**12-80VDC 20Amp Max
Motor Speed Control**

33377 MD | \$15.95 ea



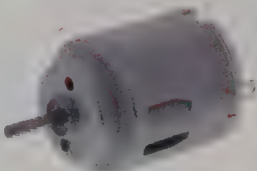
12VDC Gear Motor

17 mm dia X 45mm long motor plus
3mm dia. X 8mm shaft, bronze bear-
ings. Two M2x0.4 mounting holes in
front. Solder terminals

32208 MD | 25 RPM | \$12.95 ea
32209 MD | 55 RPM | \$12.95 ea

3VDC Mini Motor

34668 MD | \$0.79 ea



36VDC Gear Head

Motor 31474 MD | \$12.95 ea



**Motor Speed Control
with Reversing Switch**

32678 MD | \$8.95 ea



10-30VDC 3A

**4.5VDC 140RPM
Gearmotor**

19285 MD | \$9.95 ea



SG90 Servo Motor

31002 MD | \$5.95 ea



Hi-Torque Servo Motor

34108 MD | \$69.95 ea



180kg/cm

6VDC Gear Head Motor

32176 MD | \$34.95 ea



Bi-Phase Sensor

~66RPM @ 6V

**3VDC 37RPM
Micro Gearmotor**

31251 MD | \$7.25 ea

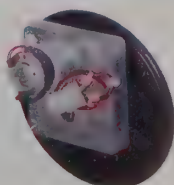


All Metal Gears

3mm Dia.
Shaft

**USED 24VDC 45 RPM
Gear Head Motor with
Wheel**

17971 MD
\$9.95 ea



**Speed Control/LED
Dimmer Module**

12-24VDC 30A

33920 MI
\$14.95 ea



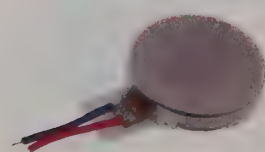
**6.5-20VDC 10Amp Max
Motor Speed Control**

33371 MD | \$8.95 ea



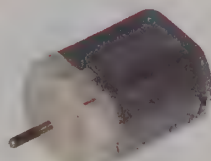
3VDC Flat Vibrator

Motor 32115 MD | \$1.95 ea



8-16VDC Mini Motor

18298 MD | \$0.99 ea



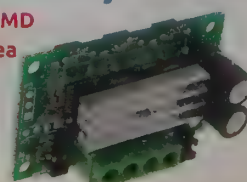
**Motor Speed Control
with Display** 6-30VDC 8A

32673 MD
\$14.95 ea



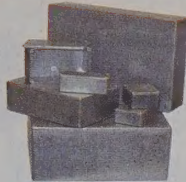
**6-28VDC 2Amp Max
Motor Speed Control
with Memory**

32826 MD
\$4.95 ea



Die Cast Aluminum Boxes

Aluminum alloy with cover & M3.5 stainless steel screws included. Internal guides on ends & sides for holding PC boards. Natural Bare Aluminum Finish. Listed below are the outside dimensions.



STOCK #	L"	W"	H"	WT.	1EA
16281 BX	2.36"	2.17"	1.18"	.18	\$3.95
16282 BX	3.15"	2.17"	0.98"	.2	\$4.25
16283 BX	3.50"	1.37"	1.18"	.16	\$3.95
16284 BX	4.49"	2.52"	1.18"	.28	\$5.95
16285 BX	4.49"	2.52"	2.17"	.36	\$7.49
16286 BX	4.49"	3.50"	2.17"	.50	\$9.25
16287 BX	4.72"	3.94"	1.38"	.56	\$8.95
16288 BX	5.51"	3.94"	2.95"	.86	\$13.85
16289 BX	6.50"	5.00"	2.95"	1.12	\$18.55
16290 BX	6.73"	4.76"	2.17"	.96	\$17.51
16291 BX	6.73"	4.76"	4.17"	1.40	\$19.95
16292 BX	8.74"	5.75"	2.17"	1.44	\$22.91
16293 BX	8.74"	5.75"	4.17"	2.80	\$28.71
16294 BX	9.84"	9.84"	3.94"	3.50	\$51.88
16295 BX	10.83"	6.89"	2.56"	2.08	\$32.91

Sealed Plastic Boxes

Gray ABS plastic project boxes with lids. Tongue & groove sealing meet IP-65 & NEMA 4 requirements. 4 standoffs on base for holding PC boards. Includes stainless cover screws & neoprene gasket material. 17407 NO Internal Guides

Listed below are the outside dimensions.

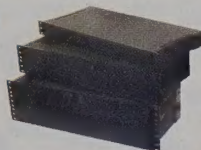


STOCK #	L"	W"	H"	WT.	1EA
17392 BX	4.53"	3.54"	2.17"	.35	\$6.95
17393 BX	6.73"	4.76"	2.17"	.54	\$9.95
17395 BX	6.73"	4.76"	3.15"	.73	\$12.95
17396 BX	7.68"	3.15"	2.17"	.49	\$8.95
17398 BX	10.43"	7.28"	3.74"	1.5	\$24.95
17402 BX	7.87"	4.72"	2.95"	.8	\$14.95
17405 BX	9.45"	6.3"	4.72"	1.5	\$20.95
17406 BX	11.81"	9.06"	4.37"	2.4	\$35.95
17407 BX	14.17"	7.87"	5.91"	3.1	\$33.95

19" Plastic Rack Mount Cabinets

Black plastic rack mount clamshell cases. Vented sides with removable front & rear panels. Internal standoffs on top & bottom. Assembly required.

NOTE: Not Available For Air Shipments. Measurements below are for Internal Space



STOCK #	DESC	W"	D"	H"	WT.	1EA
17086 BX	1U	16-3/16"	7-11/16"	1"	1.9	\$24.95
17087 BX	2U	16-3/16"	7-11/16"	2-7/8"	2.5	\$34.95
17088 BX	3U	16-3/16"	7-11/16"	4-1/2"	3.0	\$39.95

19" Metal Rack Mount Cabinets

19in. rack mount cases. 1/8in. Aluminum Front Panel with steel chassis & covers. Satin black textured paint. **NOTE: Not Available For Air Shipments**

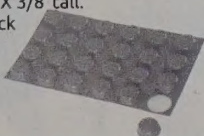


STOCK #	DESC	W"	D"	H"	WT.	1EA
17811 BX	1U	19"	11.8"	1.75"	1.9	\$34.95
17812 BX	2U	19"	11.9"	3.5"	2.5	\$39.95

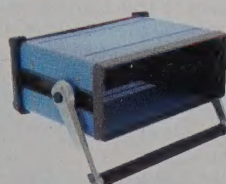
Rubber Feet

31471 BU | \$3.50 ea

3M P/N SJ6316 peel-n-stick rubber feet. Sheet of 24 Gray bumpers 7/8" in diameter X 3/8" tall. Ideal as shock absorbers, equip. feet



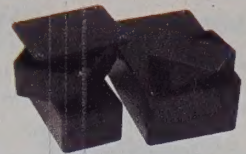
Desktop Instrument Case 33008 BX | \$89.00 ea



Plastic Project Cabinets

Black plastic project boxes with **flat lids**. Internal guides on ends & sides for holding PC boards. Includes cover screws. **Note: 15881-BX has NO Internal Guides.**

Outside dimensions are listed below.

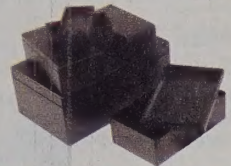


STOCK #	L"	W"	H"	WT.	1EA
15522 BX	3"	2"	1.16"	.07	\$2.49
15523 BX	4"	3"	1.6"	.13	\$2.95
15881 BX	4.41"	2.24"	.87"	.08	\$2.35
15518 BX	5"	2.5"	1.75"	.17	\$3.49
32652 BX	5.9"	3.9"	2.36"	.27	\$4.35
15883 BX	7.25"	4.5"	2.52"	.50	\$7.49

Plastic Project Cabinets

Black plastic project boxes with **deep lids**. Internal guides on ends & sides for holding PC boards. Includes cover screws.

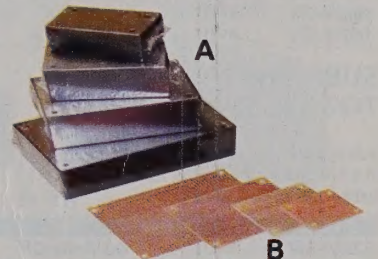
Outside dimensions are listed below.



STOCK #	L"	W"	H"	WT.	1EA
15885 BX	3.74"	1.89"	1.46"	.11	\$3.35
15886 BX	4.53"	2.36"	1.73"	.15	\$3.75
15520 BX	5.3"	3"	1.9"	.25	\$4.95
15887 BX	6.3"	3.74"	2.44"	.33	\$5.95
15888 BX	7.6"	4.53"	2.95"	.45	\$8.95
15521 BX	8.8"	5.5"	3.6"	.75	\$8.95

Plastic Project Cabinets & Perf Boards

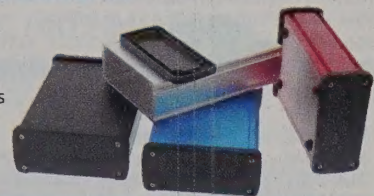
Black plastic project boxes with Aluminum lids. Internal posts for holding PC boards. Includes cover & PC board screws. Solderable phenolic Perf. Board has .1" hole grid pattern, copper one side. All dimensions are approx.



STOCK #	FIG.	SIZE	L"	W"	D/T"	WT.	1EA
15911 BX	A	Large	5-1/4"	3-1/4"	1-9/16"	.22	\$5.25
15912 PB	B	Large	4-5/16"	3-1/8"	1/16"	.04	\$1.75
15913 BX	A	Medium	4-1/8"	2-5/8"	1-9/16"	.15	\$3.50
15914 PB	B	Medium	3-1/8"	2-1/2"	1/16"	.02	\$1.10
15915 BX	A	Small	3-5/16"	2-1/8"	1-3/8"	.11	\$2.75
16227 PB	B	Small	2-5/16"	1-15/16"	1/16"	.02	\$0.79
15917 BX	A	Mini	2-11/16"	1-11/16"	1-3/16"	.08	\$2.50
15918 PB	B	Mini	1-3/4"	1-1/2"	1/16"	.009	\$0.59

Extruded Aluminum Enclosures

Extruded anodized 6063 aluminum instrument cases with black powder coated, cast aluminum end caps. Internal slots for holding PC board(s). 4 peel-n-stick rubber feet & stainless End Cap screws, IP66 rated when using the accessory Gaskets (sold separately) View Online additional accessories.



STOCK #	COLOR	L"	W"	H"	1EA
32740 BX	Silver	7-3/4"	4-9/16"	2"	\$19.95
32741 BX	Red	7-3/4"	4-9/16"	2"	\$19.95
32742 BX	Blue	7-3/4"	4-9/16"	2"	\$19.95
32743 BX	Black	7-3/4"	4-9/16"	2"	\$19.95

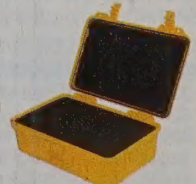
9.3" X 6.2" X 3.5" Waterproof Case

17813 BX
\$17.95 ea



12" X 7.4" X 4.4" Waterproof Case

18351 BX
\$29.95 ea



Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole.
Solder tab terminals.
Rated 6 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA
25005-SW	SPST	On-Off	\$0.75
25006-SW	SPDT	On-On	\$0.39
25010-SW	SPDT	On-Off-On	\$0.45
25009-SW	SPDT	(Mom)-Off-(Mom)	\$0.58
25014-SW	DPDT	On-Off-On	\$0.59
25016-SW	DPDT	(Mom)-Off-(Mom)	\$0.79

Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole. Solder tab terminals.
Rated 5 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA
16071-SW	SPDT	On-(Mom)	\$0.58
16072-SW	SPDT	On-Off-(Mom)	\$0.58
16073-SW	DPDT	On-(Mom)	\$0.69
16074-SW	DPDT	On-Off-(Mom)	\$0.69
16075-SW	3PDT	On-On	\$0.74
16076-SW	3PDT	On-Off-On	\$0.88
16077-SW	4PDT	On-On	\$1.42
16078-SW	4PDT	On-Off-On	\$1.75

SUB-MINI TOGGLE SWITCH

Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs.
Rated 1 Amp @ 250VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA
32850-SW	SPDT	On-None-Off	\$0.89
32854-SW	DPDT	On-None-On	\$0.89
32855-SW	DPDT	On-Off-On	\$0.89

Lighted Pushbutton Switch



Momentary or Alternate Action (Push ON-Push-OFF), SPDT, Full size, metal body, Pushbutton switch with LED lighted Ring around Button. Rated 5A @ 250VAC

Dia: 7/8" Mtg.: 3/4" hole L: 1-1/2" O/A WT: .04

STOCK #	DESC.	1EA
31370-SW	Red Momentary Switch	\$4.95
31371-SW	Green Momentary Switch	\$4.95
31372-SW	Blue Momentary Switch	\$4.95
31375-SW	Red Alternate Action Switch	\$5.95
31376-SW	Green Alternate Action Switch	\$5.95
31377-SW	Blue Alternate Action Switch	\$5.95

Pushbutton Switch



IP-67 rated, CMP #MP19S-F10, Flat Button, Metal Body, SPST-NO, Pushbutton switch. Mounts in a 3/4" hole.

Dia: 7/8" Mtg.: 3/4" hole L: 1-1/16" O/A WT: .04

STOCK #	DESC.	1EA
32091-SW	Red Momentary P/B Switch	\$4.95
32092-SW	Green Momentary P/B Switch	\$4.95
32093-SW	Blue Momentary P/B Switch	\$4.95
32094-SW	Gold Momentary P/B Switch	\$4.95
32095-SW	Black Momentary P/B Switch	\$4.95

Full Size 15A Toggle Switch

.25" Quick Connect terminals.

Standard size toggle switch, Mounts in a 15/32" hole. Rated: 10 Amps @ 250VAC. 15A @ 125VAC.



WT: .03

STOCK #	STYLE	DESC.	1EA
18371-SW	SPDT	On-None-On	\$1.95
18372-SW	SPDT	(Mom)-Off-(Mom)	\$1.95
18373-SW	DPDT	On-None-On	\$1.95
18374-SW	DPDT	On-Off-On	\$1.95
18375-SW	DPDT	(Mom)-Off-(Mom)	\$1.95

Full Size 15A Toggle Switch

Standard size toggle switches, Mounts in a 1/2" hole. Rated: 10 Amps @ 250VAC. 15A @ 125VAC. Screw terminals.



WT: .08

STOCK #	STYLE	DESC.	1EA
16081-SW	SPDT	On-None-On	\$0.88
16083-SW	SPDT	On-None-(Mom)	\$1.05
16085-SW	SPDT	(Mom)-Off-(Mom)	\$1.05
16088-SW	DPDT	On-None-(Mom)	\$1.49
16089-SW	DPDT	On-Off-(Mom)	\$1.49
16090-SW	DPDT	(Mom)-Off-(Mom)	\$1.49

Heavy Duty 20A Toggle Switches

Standard size toggle switches, Mounts in a 1/2" hole.
Rated: 15 Amps @ 250VAC. 20A @ 125VAC. Screw terminals.



WT: .03

STOCK #	STYLE	DESC.	1EA
33240-SW	SPST	On-Off	\$1.95
33243-SW	SPDT	On-On	\$1.95
33245-SW	SPDT	On-Off-On	\$2.50
12219-SW	DPST	On-Off	\$1.95
12221-SW	DPDT	On-Off-On	\$2.50

Misc. Toggle Switches



25001-SW

25002-SW

12223-SW

Full size toggle switch, Amp Ratings are @ 125VAC.

5001: Wire leads 5002: Solder tab 5004 & 12223: Screw

Mtg. Hole: 1/2 hole

WT: .07

STOCK #	STYLE	DESC.	AMP	1EA
25002-SW	SPST	On-None-Off	4	\$0.75
25001-SW	SPST	On-None-Off	6	\$1.25
12223-SW	SPST	On-None-Off	10	\$1.25

Full Size Toggle Safety Covers



Plastic, Snap action safety covers for standard (1/2" Dia.) sized toggle switches. Cover must be opened to activate switch. Closing cover forces switch to original position.

STOCK #	DESC.	1EA
16100-SW	Red Safety Cover	\$0.69
16105-SW	Black Safety Cover	\$0.69
16106-SW	Clear Safety Cover	\$0.69
16108-SW	Transp. Red Safety Cover	\$0.69

WT: .03

Push Button Switch



SPST Mounts in a 1/4" hole
N.O. = Normally Open
N.C. = Normally Closed

25019 SW | N.O. Red | \$0.29 ea
25020 SW | N.C. Black | \$0.29 ea

Push Button Switch

16093 SW | \$2.02 ea

SPST Normally Open
Mounts in a 3/4" hole.
Metal Face.



Foot Switch

18150 SW | \$5.95 ea

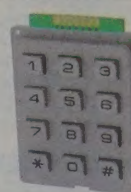
SPST Normally Open Metal
petal
with 1 meter
pigtail.



Metal X-Y Keypad

32340 SW
\$4.95 ea

3 X 4 pad with
X-Y matrix



X-Y Key Pads

31045 SW | 3x4 pad | \$2.95 ea
31046 SW | 4x4 pad | \$2.95 ea

Peel and stick
keypad with
bubble type
buttons



Plastic Float Switch

30453 SW
\$3.95 ea



SPST Rotary Switch

32597 SW | \$0.99 ea

Single pole
5 positions



BCD Thumb Switch

32083 SW | \$0.75 ea

0-9 push button
BCD switch.
End plates
Available



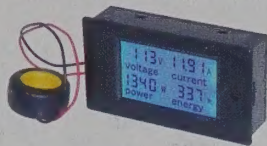
Multi Function AC LCD Panel Meter

32409 ME | \$19.95 ea
260VAC 20A with internal CT. Volt, Current, Power and Energy Display



Multi Function AC LCD Panel Meter

32403 ME | \$24.95 ea
260VAC 100A with external CT. Volt, Current, Power and Energy Display



Multi Function AC LED Panel Meter

32404 ME | \$24.95 ea
260VAC 100A with external CT. Power, Energy, Voltage and Current Display



Dual Display AC LED Panel Meter

34797 ME | \$14.95 ea
300VAC 50A with Built-in CT.

Voltage and Current Display



Dual Display AC LED Panel Meter

30301 ME | \$19.95 ea
300VAC 100A with external CT. Voltage and Current Display



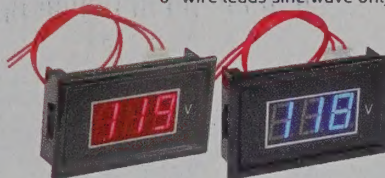
Dual Display AC LED Panel Meter

34746 ME | \$19.95 ea
300VAC 200A with external CT. Voltage and Current Display



3 Digit 60-300VAC LED Panel Meter

30220 ME | Red | \$6.95 ea
31494 ME | Blue | \$6.95 ea
Snap-in self powered LED meter 1Volt resolution- 0.56" Character height 6" wire leads-sine wave only!



Dual Display AC LED Panel Meter

33407 ME | \$22.95 ea
Din Rail Mount
300VAC 100A with internal CT. Voltage and Current Display



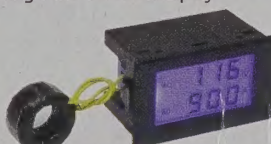
Multi Function AC LED Panel Meter

31567 ME | \$19.95 ea
600VAC 100A with external CT. Voltage, Current and Frequency Display Requires external 12VDC power source



Dual Display AC LCD Panel Meter

31496 ME | \$17.95 ea
300VAC 100A with external CT. Voltage and Current Display



10-199Hz Frequency AC LCD Panel Meter

32406 ME | \$14.95 ea



12VDC LED Panel Meter with Bar Graph

32322 ME | \$12.95 ea



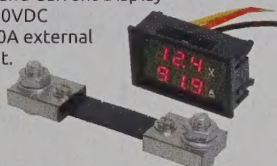
Dual Display DC LED Panel Meter

30303 ME | \$12.95 ea
Volt and Current Display
4.5-30VDC
0-10A with internal Shunt.



Dual Display DC LED Panel Meter

32063 ME | \$17.95 ea
Volt and Current Display
4.5-30VDC
0-100A external Shunt.



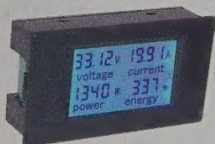
3.5-30VDC 5 Digit Panel Meter

32711 ME | \$12.95 ea



Multi Function DC LCD Panel Meter

32541 ME | \$17.95 ea
100VDC 20A with internal Shunt. Volt, Current, Power and Energy Display



Multi Function DC LCD Panel Meter

32542 ME | \$18.95 ea
100VDC 100A with external Shunt. Volt, Current, Power and Energy Display



Mini 3 Digit 4.5-30VDC LED Panel Meter

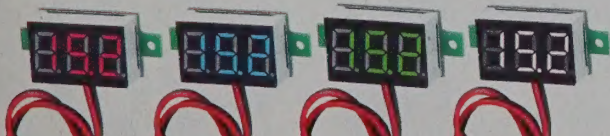
33065 ME | Red | \$5.95 ea
33066 ME | Green | \$6.95 ea
33067 ME | Blue | \$6.95 ea

LED self powered meter 0.1/0.01 Volt resolution auto range 0.56" Character height 5" wire leads. With Bezel.



Mini 3 Digit 4.5-30VDC LED Panel Meter

19598 ME | Red | \$4.95 ea
19599 ME | Blue | \$4.95 ea
19600 ME | Green | \$4.95 ea
32961 ME | White | \$5.95 ea
LED self powered meter 0.1Volt resolution .375" Character height 5" wire leads. No Bezel.



0-5Amp DC LED Panel Meter

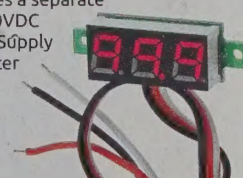
32924 ME | \$8.95 ea

Requires a separate 4.5V-28VDC Power Supply for meter



Mini 3 Digit 0-100VDC LED Panel Meter

32321 ME | \$3.95 ea
Requires a separate 2.5V-30VDC Power Supply for meter



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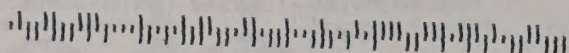
314310

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D3541

T28 P1

PHIL ACCARDI
7 DOMINIQUE LN
SIMSBURY CT 06070-1623



12 VDC @ 3A Power Supply



↔ 5.5/2.1mm

34445 PS | \$6.95 ea

AC Volt Panel Meters



34657 ME | Red
34658 ME | Green
34659 ME | Yellow
34660 ME | Blue
34661 ME | White

\$2.95 ea

Mini Tilt Switch

Pack of
10 pcs

34826 SW
\$2.50/Pack

Mini Rare Earth Magnet

33970 MG
\$0.99 ea

6mm Dia.



Color Panel Meter

34645 ME | \$19.95 ea

AC Volts-Amps-Watts



Variable Waveform Generator

34670 MP | \$10.95 ea

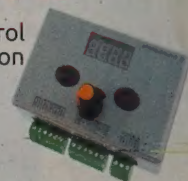
Sine, Square or
Triangular Wave



Simple Stepper Controller

34117 MS | \$29.95 ea

Manual Speed Control
Start/Stop & Direction
Switches
7.5-24VDC Power



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17785 RS | 1 Ω | \$5.95 ea
17786 RS | 2 Ω | \$5.95 ea
17787 RS | 4 Ω | \$6.95 ea
17788 RS | 8 Ω | \$6.95 ea
17789 RS | 16 Ω | \$6.95 ea

Mushroom Top P/B Switches

DPST-1 NO/1NC Momentary
34863 SW | \$9.95ea

DPST-1 NO/1NC Alternate Action
34864 SW | \$10.95 ea



USB Grow Light

34894 OP | \$8.95 ea

USB "A" Plug



5VDC Power

Wide Spectrum for plant growth

Automotive Safety Switches



SPST 12VDC
LED Lighted

\$2.95 ea

34928 SW | Red
34929 SW | Green
34930 SW | Blue
34931 SW | Yellow
34932 SW | Clear
34933 SW | Purple
34934 SW | Carbon

5VDC Power Supply



34291 PS
\$2.95ea

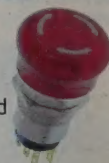
↔ 5.5/2.5mm

STOP Switch

34740 SW
\$8.95 ea

DPDT

Latches when Pressed
Turn to Release



Red 5" 7 Segment LED C.C. Display

34491 OP
\$5.95 ea



These
are
Humongous

5 Channel Sequencer

34734 MI | \$9.95 ea



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Programmable Outputs

5A DC Buck Converter

34736 PS
\$16.95ea

4-40V Input

Volt & Current
Displays



Color Top Spline Knobs

34938 KN
\$1.95/Pack of 12pcs

2 of Each Color

6mm Splined
Shaft

